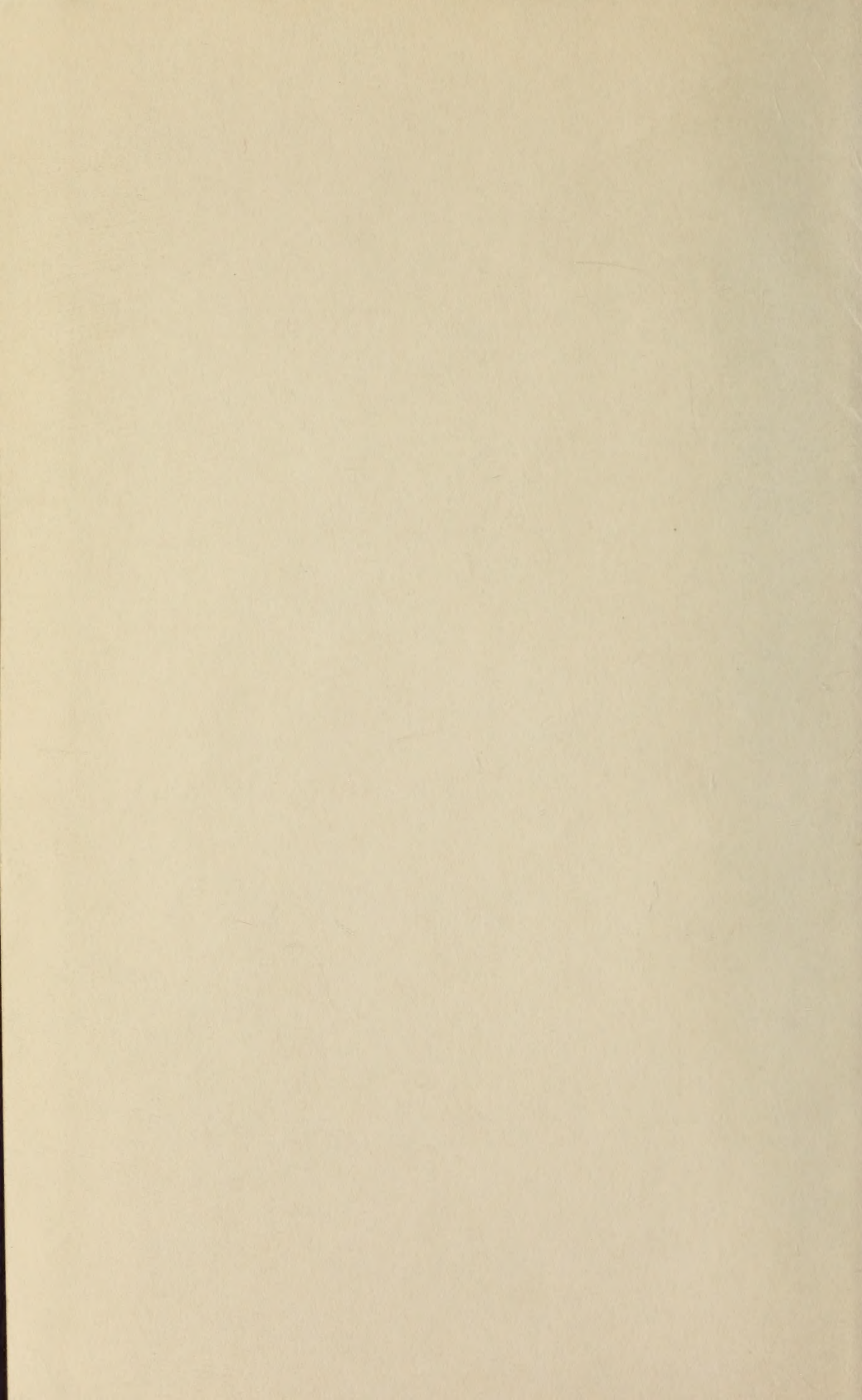
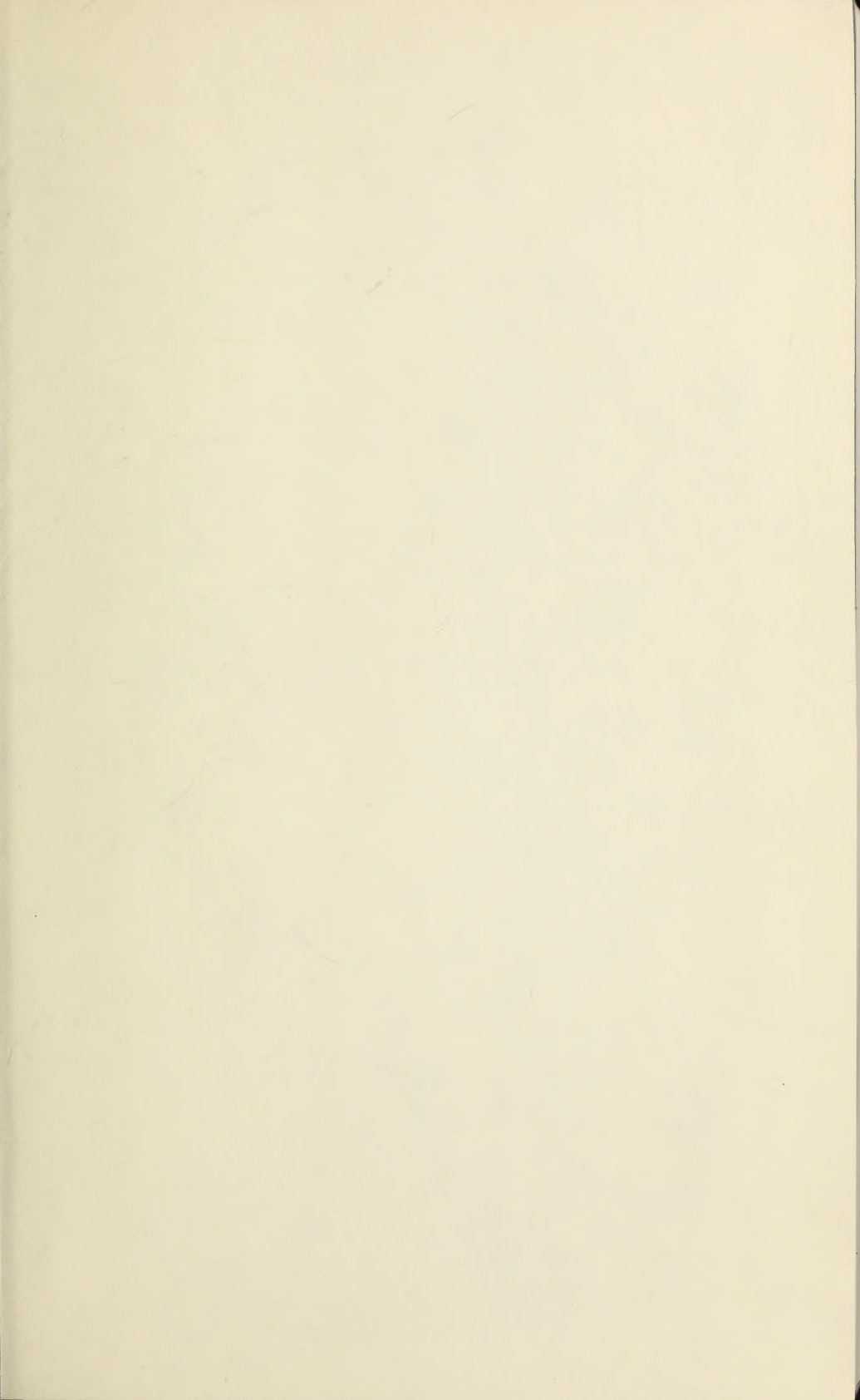
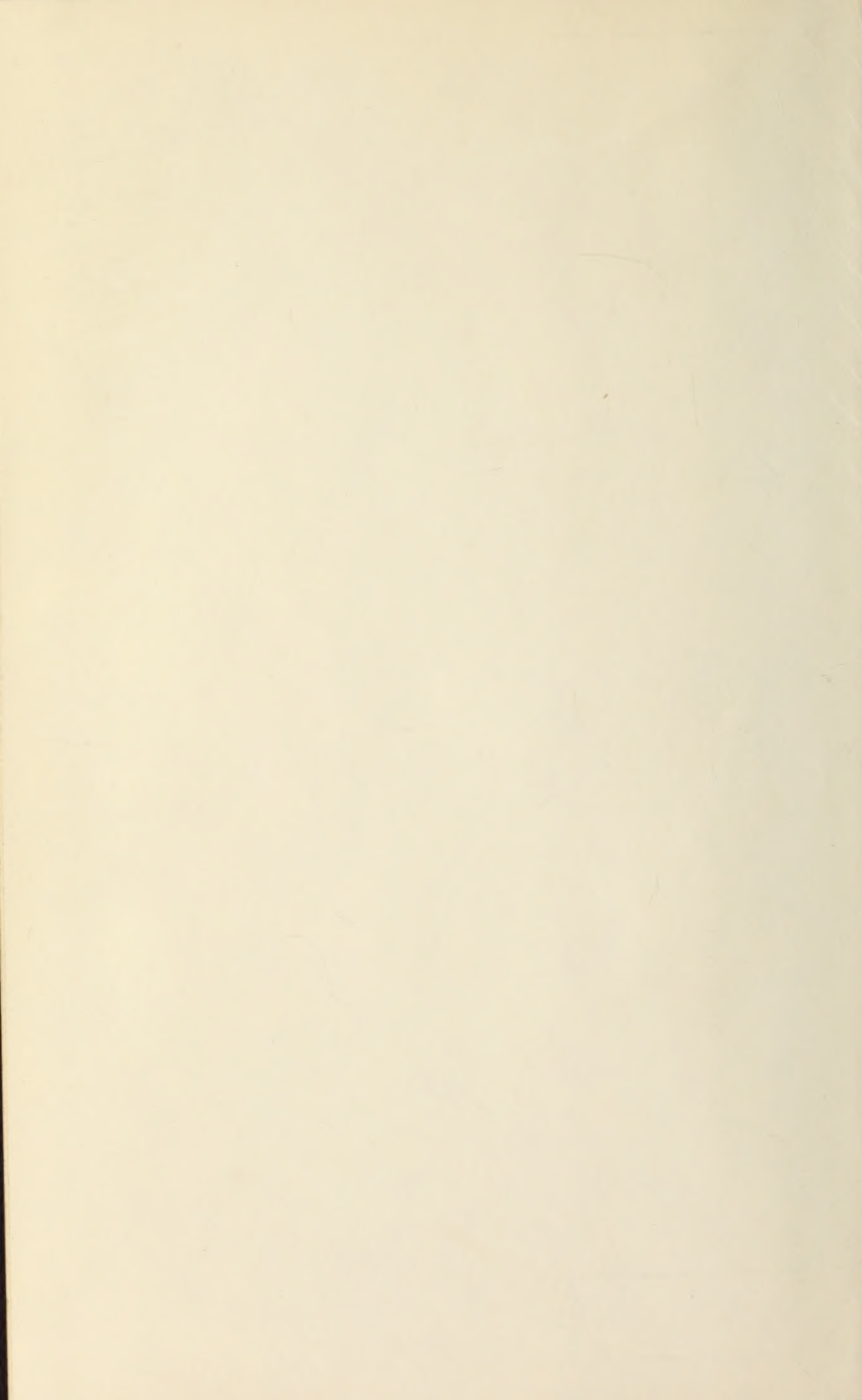


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Smith College Bulletin

THE CATALOGUE NUMBER

1965 - 1966

NOVEMBER, 1965

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NORTHAMPTON, MASSACHUSETTS

Visitors

Visitors are always welcome at the College. Student guides, whose headquarters are College Hall 1, are available for conducting tours of the campus. Their services may be reserved in advance by application to the Board of Admission.

Candidates for admission and pre-college students are urged to secure appointments in advance with the Director or Associate Director of Admission and, if they are interested in scholarship and self-help opportunities, with the Director of Scholarships and Student Aid.

Administrative offices in College Hall are open Monday through Friday from 8:30 A.M. to 4:30 P.M. At other times, including holidays, officers and staff are available only if an appointment is made in advance.

Correspondence

Inquiries of various types concerning Smith College may be made of the following officers and their staffs, either by mail or by interview. The post office address is Northampton, Massachusetts 01060.

ADMISSION OF STUDENTS: Miss Jane Sehmman, *Director*

RESIDENCE & GENERAL WELFARE OF STUDENTS: Miss Helen L. Russell, *Dean of Students*

SCHOLARSHIPS, LOANS, & WORK: Mrs Linton H. Foster, *Director*

GRADUATE STUDY & FELLOWSHIPS: Mr Kenneth W. Sherk, *Director*

FOREIGN STUDENTS: Mrs Joan M. Bramwell, *Chairman of the Committee*

HEALTH OF STUDENTS: Dr. Elizabeth Grimm, *College Physician*, 69 Paradise Road

ACADEMIC STANDING:

Class of 1969, Mr William H. Van Voris

Class of 1968, Miss Adrienne Auerswald

Classes of 1966 and 1967, Mrs Michael Olmsted, *Assistant Dean*

PAYMENT OF BILLS: Mr Robert L. Ellis, *Treasurer*

DEVELOPMENT & PUBLIC RELATIONS: Mr Herbert N. Heston, *Director*

TRANSCRIPTS & RECORDS: Mrs Helen B. Bishop, *Registrar*

PUBLICATIONS: Office of the Dean, College Hall 21

SCHOOL FOR SOCIAL WORK: Mr Howard J. Parad, *Director*

ALUMNAE AFFAIRS: Mrs John Scott Stella, *General Secretary*, Alumnae House

ALUMNAE REFERENCES: Miss Alice N. Davis, *Director of the Vocational Office*

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College Calendar

FIRST SEMESTER, 1965-1966

SUNDAY, SEPTEMBER 19, 7:30 P.M., Freshman Registration and Meeting with Class Dean

MONDAY, SEPTEMBER 20 THROUGH TUESDAY, SEPTEMBER 21, Freshman Orientation

TUESDAY, SEPTEMBER 21, 9:00 A.M., First Chapel and Upperclass Registration

WEDNESDAY, SEPTEMBER 22, 9:00 A.M., Classes begin

MOUNTAIN DAY (*holiday*), To be announced by the President

WEDNESDAY, OCTOBER 27 - WEDNESDAY, NOVEMBER 10, Midsemester grades due

WEDNESDAY, NOVEMBER 24, 12:50 P.M. - MONDAY, NOVEMBER 29, 9:00 A.M., Thanksgiving Recess

SATURDAY, DECEMBER 18, 12:50 P.M. - TUESDAY, JANUARY 4, 9:00 A.M., Winter Recess

TUESDAY, JANUARY 4, 9:00 A.M. - SATURDAY, JANUARY 15, Reading Period

MONDAY, JANUARY 17, Free Day

TUESDAY, JANUARY 18 - THURSDAY, JANUARY 27, Midyear Examinations

SECOND SEMESTER, 1965-1966

MONDAY, JANUARY 31, 9:00 A.M., Second Semester begins

SATURDAY, FEBRUARY 26, Rally Day

MONDAY, MARCH 7 - SATURDAY, MARCH 19, Midsemester grades due

SATURDAY, MARCH 19, 12:50 P.M. - MONDAY, APRIL 4, 9:00 A.M., Spring Recess

SATURDAY, MAY 7, 12:50 P.M. - WEDNESDAY, MAY 18, Reading Period

THURSDAY, MAY 19, Free Day for classes not having Reading Period

FRIDAY, MAY 20 - MONDAY, MAY 30, Final Examinations

SUNDAY, JUNE 5, Commencement

The Board of Trustees

THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D., L.H.D., *President* Northampton

*Term
expires*

1967 CICELY KERSHAW ROSENBERRY, A.B., A.M. (HON.), *Chairman* New York City

1966 ANNE CLARK FISCHER, A.B. Glencoe, Illinois

1966 JOHN ALLEN KROUT, PH.D., L.H.D., LL.D. Tiffin, Ohio

1967 EDWARD H. DECONINGH, A.B., S.B. Cleveland, Ohio

1967 LAURA GUNDLACH ELMENDORF, A.B., M.S. Portola Valley, California

1967 H. BRADFORD WASHBURN, JR., A.M., PH.D. (HON.), SC.D. (HON.)
Cambridge, Massachusetts

1968 J. SEELYE BIXLER, PH.D., D.D., D.C.L., L.H.D., LL.D. Jaffrey, New Hampshire

1968 RUTH SEARS CHUTE, A.M. Brookline, Massachusetts

1968 VIRGINIA CLEGG GAMAGE, A.B. Marblehead Neck, Massachusetts

1969 HARVEY BROOKS, PH.D., SC.D. (HON.) Cambridge, Massachusetts

1969 HELEN HUBERTH KEENE, A.B. Scarsdale, New York

1969 DOROTHY NEPPER MARSHALL, PH.D. Bryn Mawr, Pennsylvania

1969 CONSTANCE MORROW MORGAN, A.M. Ridgefield, Washington

1970 ALBERT H. GORDON, A.B., M.B.A. New York City

1970 ELIZABETH BELL HIGGINBOTHAM, A.B. Dallas, Texas

1970 FREDERICK SHEFFIELD, A.B., LL.B. New York City

FLORENCE MACDONALD, A.B., *Secretary* Northampton

ROBERT LEE ELLIS, A.B., M.B.A., *Treasurer and Controller* Northampton

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ETHEL LAUGHLIN COMFORT, A.B. (<i>Chairman</i>)	Philadelphia, Pennsylvania
FRANCES C. POWERS, A.B. (<i>Vice Chairman</i>)	Northampton
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ROBERT L. ARNSTEIN, A.B., M.D.	Hamden, Connecticut
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LAURA BORNHOLDT, PH.D.	St. Louis, Missouri
MARY BROOKS GRISWOLD, A.B.	New Haven, Connecticut
A. JOHN HOLDEN, JR., ED.D.	Montpelier, Vermont
PEGGY CLARK KELLEY, M.F.A.	Brooklyn, New York
SUSAN E. LYMAN, A.M.	New York City
LUCILE G. MASON, A.B.	New York City
ELIZABETH STOFFREGEN MAY, PH.D., LL.D.	Washington, D. C.
RUTH HILL MCGREGOR, A.B.	New York City
ANNE KANE MCGUIRE, A.M.T.	Charlottesville, Virginia
EDITH BLAKESLEE PHELPS, A.B.	Wellesley, Massachusetts
HELEN S. PITTMAN, A.B., M.D.	Groton, Massachusetts
MABEL BROWN POLLAK, A.B.	Los Angeles, California
LUCY ROBBINS RAND, A.B.	Lincoln, Massachusetts
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CAROLINE BEDELL THOMAS, A.B., M.D., SC.D. (HON.)	Baltimore, Maryland
FREDERICK M. WARBURG, A.B.	New York City
VIRGINIA WING, A.B.	Cambridge, Massachusetts

THE FACULTY

THOMAS CORWIN MENDENHALL, B.LITT. PH.D., LL.D., L.H.D.	<i>President and Professor of History</i>
LAURA WOOLSEY LORD SCALES, B.L., L.H.D., LITT.D.	<i>Warden Emeritus (1944)</i>
FRANK HAMILTON HANKINS, PH.D., L.H.D.	<i>Professor Emeritus of Sociology (1946)</i>
H. LOUISA BILLINGS, A.M.	<i>Associate Professor Emeritus of Physics (1947)</i>
SUSAN MILLER RAMBO, PH.D.	<i>Professor Emeritus of Mathematics (1948)</i>
ELEANOR SHIPLEY DUCKETT, PH.D., D.LITT., L.H.D.	<i>Professor Emeritus of Classical Languages and Literatures (1949) and Sophia Smith Fellow</i>
ELIZABETH FAITH GENUNG, M.S. IN AGR.	<i>Associate Professor Emeritus of Bacteriology (1950)</i>
ABBIE MABEL O'KEEFE, M.D.	<i>Associate Physician Emeritus (1950)</i>
ARTHUR WARE LOCKE, A.M.	<i>Professor Emeritus of Music (1952)</i>
ESTHER LOWENTHAL, PH.D.	<i>Professor Emeritus of Economics (1952)</i>
AGNES CARR VAUGHAN, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures (1952) and Sophia Smith Fellow</i>
KATE RIES KOCH, A.M., M.L.D.	<i>Associate Professor Emeritus of Landscape Architecture (1952)</i>
ANACLETA CANDIDA VEZZETTI, DOTTORE IN FILOSOFIA E PEDAGOGIA	<i>Associate Professor Emeritus of Italian Language and Literature (1952)</i>
GERTRUDE GOSS	<i>Associate Professor Emeritus of Physical Education (1952)</i>
KARL SCOTT PUTNAM, B.S. IN ARCH.	<i>Associate Professor Emeritus of Architecture (1952)</i>
SAMUEL RALPH HARLOW, PH.D., L.H.D., LITT.D.	<i>Professor Emeritus of Religion and Biblical Literature (1953)</i>
FREDERICK WARREN WRIGHT, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures (1953)</i>

Explanation of marks before instructors' names: †absent for the year; *absent for the first semester; **absent for the second semester; §Director of a Junior Year Abroad; ¹appointed for the first semester; ²appointed for the second semester.

THE FACULTY

VERA A. SICKELS, A.M.	<i>Professor Emeritus of Speech</i> (1953)
ELIZABETH ANDROS FOSTER, PH.D.	<i>Professor Emeritus of Spanish Language and Literature</i> (1953)
ROBERT MERRILL DEWEY, A.M.	<i>Secretary Emeritus of the Faculty</i> (1953)
MARGARET BRACKENBURY CROOK, B.A., DIPLOMA IN ANTHROPOLOGY	<i>Associate Professor Emeritus of Religion and Biblical Literature</i> (1954) and <i>Sophia Smith Fellow</i>
MYRA MELISSA SAMPSON, PH.D.	<i>Professor Emeritus of Zoology</i> (1955)
MARY ELLEN CHASE, PH.D., LITT.D., L.H.D.	<i>Professor Emeritus of English Language and Literature</i> (1955)
HAROLD UNDERWOOD FAULKNER, PH.D., L.H.D.	<i>Professor Emeritus of History</i> (1955)
HALLIE FLANAGAN DAVIS, A.M., L.H.D., D.F.A.	<i>Professor Emeritus of Drama</i> (1955)
K. FRANCES SCOTT, PH.B., M.D.	<i>Associate Professor Emeritus of Hygiene</i> (1955)
MIGUEL ZAPATA Y TORRES, PH.D.	<i>Associate Professor Emeritus of Spanish Language and Literature</i> (1957)
WILLIAM BEAUMONT SCATCHARD, B.MUS., B.S.	<i>Associate Professor Emeritus of Music</i> (1957)
SETH WAKEMAN, PH.D.	<i>Professor Emeritus of Education and Child Study</i> (1958)
VERA BROWN HOLMES, PH.D., LITT.D. (HON.)	<i>Professor Emeritus of History</i> (1958) and <i>Sophia Smith Fellow</i>
C. PAULINE BURT, PH.D., SC.D. (HON.)	<i>Professor Emeritus of Chemistry</i> (1958)
BENJAMIN MARTIN SHAUB, PH.D.	<i>Associate Professor Emeritus of Geology and Geography</i> (1958)
MARGARET ALEXANDER MARSH, A.M.	<i>Professor Emeritus of Sociology and Anthropology</i> (1959)
ESTHER CLOUDMAN DUNN, PH.D., LITT.D.	<i>Professor Emeritus of English Language and Literature</i> (1960)
CLARENCE KENNEDY, PH.D.	<i>Professor Emeritus of Art</i> (1960)
DOROTHY SEARS AINSWORTH, PH.D., SC.D. (HON.)	<i>Professor Emeritus of Physical Education</i> (1960)
MADELEINE GUILLON, LIC. ÈS. L., A.M.	<i>Associate Professor Emeritus of French Language and Literature</i> (1960)
SARA BACHE-WIIG, PH.D.	<i>Associate Professor Emeritus of Botany</i> (1960)

THE FACULTY

FRANCES CAMPBELL MCINNES, A.M., M.D.	<i>Associate Physician Emeritus</i> (1960)
SIDNEY RAYMOND PACKARD, PH.D., JUR.D. (HON.), L.H.D.	<i>Professor Emeritus of History</i> (1961)
RUTH LEE KENNEDY, PH.D.	<i>Professor Emeritus of Spanish Language and Literature</i> (1961)
SAMUEL ATKINS ELIOT, A.B.	<i>Professor Emeritus of Theatre</i> (1961)
RENÉ GUIET, DOCTEUR DE L'UNIVERSITÉ DE PARIS	<i>Professor Emeritus of French Language and Literature</i> (1961)
MARGARET HILL PEOPLES, PH.D.	<i>Professor Emeritus of French Language and Literature</i> (1961)
MARTHE STURM, LIC. ÈS. L., DIPLÔME D'ÉTUDES SUPÉRIEURES	<i>Professor Emeritus of French Language and Literature</i> (1961)
RUTH ELIZABETH YOUNG, A.M.	<i>Professor Emeritus of Italian Language and Literature</i> (1961)
ELISABETH KOFFKA, PH.D.	<i>Professor Emeritus of History</i> (1961)
RUTH WEDGWOOD KENNEDY, A.B.	<i>Professor Emeritus of Art</i> (1961)
STANLEY CURTIS ROSS, A.B., LL.D.	<i>Associate Professor Emeritus of Economics</i> (1961)
CATHERINE A. PASTUHOVA, PH.D.	<i>Associate Professor Emeritus of Russian Language and Literature</i> (1961)
JEANNE SEIGNEUR GUIET, M.A.	<i>Assistant Professor Emeritus of French Language and Literature</i> (1961)
WILLIAM SENTMAN TAYLOR, PH.D.	<i>Professor Emeritus of Psychology</i> (1962)
VINCENT GUILLON, AGRÉGÉ DE L'UNIVERSITÉ	<i>Professor Emeritus of French Language and Literature</i> (1962)
NORA MAY MOHLER, PH.D., SC.D. (HON.)	<i>Professor Emeritus of Physics</i> (1962)
KATHERINE GEE HORNBEAK, PH.D.	<i>Professor Emeritus of English Language and Literature</i> (1962)
EDITH BURNETT, B.S.	<i>Associate Professor Emeritus of Theatre and Speech</i> (1962)
HÉLÈNE CATTANÈS, DOCTEUR DE L'UNIVERSITÉ DE PARIS	<i>Professor Emeritus of French Language and Literature</i> (1963)
LEONA CHRISTINE GABEL, PH.D.	<i>Professor Emeritus of History</i> (1963)
KATHERINE REDING WHITMORE, D.LIT. (MADRID)	<i>Professor Emeritus of Spanish Language and Literature</i> (1963)
RAYMOND PRENTICE PUTMAN	<i>Professor Emeritus of Music</i> (1963)

THE FACULTY

BIANCA DEL VECCHIO, DIPLOMA DI MAGISTERO	<i>Professor Emeritus of Music</i> (1963)
HELEN JEANNETTE PEIRCE, M.A.	<i>Associate Professor Emeritus of Spanish and Portuguese Languages and Literatures</i> (1963)
OLIVER WATERMAN LARKIN, A.M.	<i>Professor Emeritus of Art</i> (1964)
MICHELE FRANCESCO CANTARELLA, A.M.	<i>Professor Emeritus of Italian Language and Literature</i> (1964)
EDNA REES WILLIAMS, PH.D.	<i>Professor Emeritus of English Language and Literature</i> (1964)
IDA DECK HAIGH	<i>Associate Professor Emeritus of Music</i> (1964)
MARY ELIZABETH MENSEL, A.B.	<i>Director Emeritus of Scholarships and Student Aid</i> (1964)
GLADYS AMELIA ANSLOW, PH.D., SC.D. (HON.)	<i>Professor Emeritus of Physics</i> (1965)
ERNEST CHARLES DRIVER, PH.D.	<i>Professor Emeritus of Zoology</i> (1965)
MARINE LELAND, PH.D., LITT.D. (HON.)	<i>Professor Emeritus of French Language and Literature</i> (1965)
FLORENCE MARIE RYDER, M.S.	<i>Associate Professor Emeritus of Physical Education</i> (1965)
WILLIAM ALBERT BODDEN, B.A.	<i>Treasurer and Controller Emeritus</i> (1965)
MARGARET STORRS GRIERSON, PH.D.	<i>College Archivist Emeritus</i> (1965)
<hr/>	
DANIEL AARON, PH.D.	<i>Mary Augusta Jordan Professor of English Language and Literature</i>
JUAN BAUTISTA AVALLE-ARCE, PH.D.	<i>Sophia Smith Professor of Spanish and Portuguese Languages and Literatures</i>
DOROTHY CAROLIN BACON, PH.D.	<i>Robert A. Woods Professor of Economics</i>
LEONARD BASKIN, B.A.	<i>Professor of Art</i>
†CLIFFORD RICHARDSON BRAGDON, A.M., ED.M.	<i>Professor of Education and Child Study</i>
ESTHER CARPENTER, PH.D., D.SC. (HON.)	<i>Myra M. Sampson Professor of Zoology</i>
CHARLES SCOTT CHETHAM, PH.D.	<i>Director of the Smith College Museum of Art</i>
ELY CHINOY, PH.D.	<i>Professor of Sociology and Anthropology</i>
GEORGE COHEN	<i>Professor of Art</i>

THE FACULTY

LOUIS COHN-HAFT, PH.D.	<i>Professor of History</i>
JEAN COLLIGNON, AGRÉGÉ DE L'UNIVERSITÉ	<i>Professor of French Language and Literature</i>
VIRGINIA CORWIN, B.D., PH.D.	<i>Charles N. Clark Professor of Religion and Biblical Literature</i>
NEAL BREAULE DENOOD, PH.D.	<i>Professor of Sociology and Anthropology</i>
†MARION DERONDE, A.B.	<i>Professor of Music</i>
GEORGE WARREN DE VILLAFRANCA, PH.D.	<i>Professor of Zoology and Assistant to the President</i>
GEORGE EDWARD DIMOCK, JR., PH.D.	<i>Professor of Classical Languages and Literatures</i>
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Instructor in Physical Education

Instructor in Art

THE FACULTY

LAWRENCE ALEXANDER JOSEPH, A.M.

Instructor in French Language and Literature

YVONNE ELIZABETH LOSCH, A.B.

Instructor in Germanic Languages and Literatures

ROBERT HAROLD LUCAS, A.M.

Instructor in History

THEODORE ANTHONY PERRY, A.B.

Instructor in French Language and Literature

DOROTHY MYRICK RANDALL, M.A.

Instructor in Theatre and Speech

DEBORAH HOBSON SAMUEL, PH.D.

Instructor in Classical Languages and Literatures

RICHARD ALAN SMERNOFF, A.M.

Instructor in French Language and Literature

BORIS SOROKIN, A.M.

Instructor in Russian Language and Literature

HERBERT FREDERICK STEEPER, M.A.L.D.

Instructor in Government

CHIFRA HOLT ZACHARY, A.B.

Instructor in Physical Education

JEAN CARL COHEN, PH.D.

Research Associate in Psychology

SEVGI BÖKE, A.M.

Research Fellow in Chemistry

KARL ULRICH BUBROWSKI

Assistant in Germanic Languages and Literatures

¹JONATHAN BURNHAM

Assistant in Theatre and Speech

¹RAYMOND FRANCIS HOWARD, M.A.

Assistant in Theatre and Speech

SABRA MACLEOD, A.B.

Assistant in Spanish and Portuguese Languages and Literatures

RIK PIERCE, A.B.

Assistant in Theatre and Speech

¹JEAN-CLAUDE VASSEUX

Assistant in Theatre and Speech

VIRGINIA E. PARKER, A.B.

Faculty Fellow in History

SUSAN ADAIR, A.B.

Teaching Fellow in Chemistry

LÂLE AKA, A.M.

Teaching Fellow in Chemistry

MARTHA SUE BLACKLEDGE, A.B.

Teaching Fellow in Education and Child Study

DIANE V. BRIDGES, B.A.

Teaching Fellow in Psychology

DEBORAH ANN BROWN, A.B.

Teaching Fellow in Education and Child Study

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MARY ROSE CASTELLI, A.M.

DEE ANN DAHL, A.M.

JUDY DALE HALL, A.B.

JO-ANN HAMMONS, M.S.

HAROLD ROYAL HINDS, B.S.

DONNA GABOURY JARA, A.B.

ELLEN CHIEU-SUEY LIN, B.S.C.

JOANNE EBERT MARSDEN, A.B.

ANN COOPER PLATZER, M.S.C.

JO-ANNA RAE SIMPSON, A.B.

BARBARA ANN SPENGLER, B.S.

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JUDITH BARRETT TREDWELL, A.B.

RAYMOND JOSEPH BERNIER, M.ED.

BARBARA CARROLL, B.A.

RUTH ELIZABETH ELLER, A.B.

CYNTHIA JANE ENGLISH, A.B.

SUSAN HONI FORSCHER, A.B.

Teaching Fellow in Botany

Teaching Fellow in Music

Teaching Fellow in Zoology

Teaching Fellow in Zoology

Teaching Fellow in Botany

Teaching Fellow in Chemistry

Teaching Fellow in Zoology

Teaching Fellow in Education and Child Study

Teaching Fellow in Zoology

Teaching Fellow in Geology and Geography

Teaching Fellow in Bacteriology and Public Health

Teaching Fellow in Chemistry

Teaching Fellow in Chemistry

Graduate Assistant in Theatre and Speech

Graduate Assistant in Education and Child Study

Graduate Assistant in Theatre and Speech

Graduate Assistant in Music

Graduate Assistant in Music

THE ADMINISTRATION

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PH.D., LL.D., L.H.D.

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HELEN LOUISE RUSSELL, PH.D.

GEORGE WARREN DEVILLA FRANCA, PH.D.

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BETTY BAUM, M.S.S.

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JANE SEHMANN, A.M.

THEODORA SOHST FOSTER, A.B.

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HERBERT N. HESTON, A.B.

MARGARET GIBSON LEWIS, A.M.

MARCIA WILLIAMS BRADLEY, A.B.

CHARLES DEBRULER, B.S.

PAUL DOUGLAS DAVIS, B.S. IN C.E.

DOROTHY YOST GROFF, A.B.

GRACE PAULINE ASSERSON, A.B.

RUSSELL FIELD CARPENTER, B.A.

**PETER NILES ROWE, PH.D.

FLORENCE MACDONALD, A.B.

RUTH A. BRYAN, A.B.

DORIS SNODGRASS DAVIS, M.S., M.A.

JACK WILLIAM SIMPKIN, B.S., B.A.

LOUIS RICHARD MORRELL, B.S.

President

Dean

Dean of Students

Assistant to the President

Treasurer and Controller

*Registrar and Executive Secretary Com-
mittee on Foreign Study*

Director of Graduate Study

Dean of the Class of 1969

Dean of the Class of 1968

*Assistant Dean and Adviser to the Classes
of 1966 and 1967*

Student Counselor

Chaplain

Director of Admission

Director of Scholarships and Student Aid

Director of the Vocational Office

*Director of Development and Public Re-
lations*

News Director

*Archivist, Director Sophia Smith Collection,
and Executive Secretary Friends of the
Library*

*Business Manager and Director of
Procurement*

Superintendent of Buildings and Grounds

Director of Dormitories

Employment Manager

Secretary of the College

Secretary of the Faculty

*Secretary to the President and Secretary of
the Board of Trustees*

Secretary to the Dean

*Assistant to the Dean of Students and Ad-
viser to Foreign Students*

Assistant Treasurer

Assistant Controller

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 NORMA EVELYN NELSON, M.S.S.
 KENNETH HARTLEY SULSTON, B.D., PH.D.
 AVE MARIE MCGARRY, M.A.
 NANCY COOK STEEPER, A.B.
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 GRACE THORN FARJEON, A.B.
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 JOSEPH M. HOBBS, B.S.
 IRENE W. O'DONNELL, A.B.
 MALCOLM DICKINSON FRINK
 LEROY BACON CLAPP
 WILLIAM I. P. CAMPBELL
 MARY YOUNG O'NEAL, B.S.
 PHYLLIS ANNA REINHARDT, A.M., S.M.
 ERNA GOLDSTAUB HUBER
 MARY MILLWARD ANKUDOWICH, A.B., B.S.

Auditor
Rental Manager
Assistant to the Registrar
Secretary to the Committee on Graduate Study
Associate Student Counselor
Assistant Chaplain
Associate Director of Admission
Assistant Director of Admission
Secretary to the Director of Admission
Associate Director of the Vocational Office
Associate Director of the Vocational Office
Assistant Director of Development
Secretary to the Director of Development and Public Relations
Purchasing Agent
Assistant to the Purchasing Agent
Horticulturist
Dietitian
Curator of Books and Photographs, Department of Art
Curator of Slides, Department of Art
Music Librarian

THE LIBRARY

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 WINIFRED RANDALL ALSOP, A.B., M.S.
 PATRICIA J. DELKS, A.B., M.S.
 GRACE FRANCES HOLT, B.A., B.L.S.
 DOROTHY KING, A.M., A.B.L.S.
 EDITH MARGARET LIBBY, A.B., A.M.L.S.
 ELSA JILLSON NICHOLS
 EDWINA ELY PEARSON, B.S.
 RUTH RICHASON RICHMOND, A.B.
 MILDRED C. STRAKA, A.B., M.S.
 E. MARIE W. WIKANDER, B.A., M.S. IN L.S.

Librarian
Science Librarian
Reference Librarian
Head of Serials Department
Curator of Rare Books
Head of Order Department
Head of Documents Department
Head of Reserve Book Room
Assistant in Charge of Gifts and Exchanges
Head Cataloguer
Head of Circulation Department

ARCHIVES AND SOPHIA SMITH COLLECTION

MARCIA WILLIAMS BRADLEY, A.B.	<i>Archivist, Director of the Sophia Smith Collection</i>
ELIZABETH SEDGWICK DUVALL, B.A., B.S.L.S.	<i>Bibliographer, Consultant Sophia Smith Collection</i>

THE SMITH COLLEGE MUSEUM OF ART

CHARLES SCOTT CHETHAM, PH.D.	<i>Director</i>
MARY G. PARK, A.B.	<i>Assistant to the Director</i>

THE SMITH COLLEGE DAY SCHOOLS

HELEN EVANGELINE REES, ED.D.	<i>Director Preschool and Elementary School Teacher Preparation</i>
NELSON R. OHMART, A.B.	<i>Principal and Head of Upper School</i>
MURIEL ANNETTE LOGAN, ED.M.	<i>Master Teacher of Physical Education and Coordinator of Special Subjects</i>
CARLTON LINWOOD BEAL, JR., B.S.	<i>Teacher of Physical Education</i>
ISABEL ANDERSON HOLDEN	<i>Master Teacher of Music</i>
FLORENCE DUVALL SMITH, A.M.	<i>Master Teacher of Instrumental Music</i>
HÉLÈNE BURKHARDT, B.A.	<i>Master Teacher of French</i>
CLAIRE CUTTEN MANWELL, A.B., M.D.	<i>Physician</i>
RUTH HOVER, R.N.	<i>Health Service Nurse</i>

UPPER SCHOOL

ISABEL MOORE ARNOLD, M.S.	<i>Master Teacher</i>
DAVID DEBAUN, M.A.	<i>Master Teacher</i>
DONALD F. FENN, M.S.	<i>Master Teacher</i>
MARIANNE MORRELL SIMPKIN, M.A.T.	<i>Master Teacher</i>
MARIETTA PRITCHARD, A.B.	<i>Teacher</i>
PATRICIA A. ROTMAN, A.B.	<i>Teacher</i>

LOWER SCHOOL

ELSIE HARRIET KOESTER, A.M.	<i>Head of Lower School</i>
DORIS FRENCH DORSCH, B.S.	<i>Master Teacher</i>
JANICE RAE BROWN, ED.M.	<i>Master Teacher</i>
MARCIA GOLDMAN, ED.M.	<i>Teacher</i>
MARGARET JANE SMITH, A.B.	<i>Teacher</i>

THE ELISABETH MORROW MORGAN PRESCHOOL

ISOBEL REYMES KING, M.A.	<i>Master Teacher and Head of Preschool</i>
ALICE R. BUTLER, ED.M.	<i>Master Teacher</i>
ELIZABETH RUGGLES HAMILTON, A.B.	<i>Master Teacher</i>
SHAUNEEN SULLIVAN KROLL, A.B.	<i>Associate Teacher</i>
JEAN V. KITELEY, B.A.	<i>Assistant Teacher</i>

HEALTH SERVICE

ELIZABETH GRIMM, M.S., M.D.	<i>College Physician</i>
MARY FRANCES BROWN, A.M., M.D.	<i>Associate Physician</i>
PAUL HAROLD SETON, A.B., M.D.	<i>Associate Physician and Psychiatrist</i>
HERMAN EDELBERG, A.B., M.D.	<i>Associate Physician</i>
MARJORIE ROACH, A.B., M.D.	<i>Assistant Physician</i>
EILEEN KATHLEEN EDELBERG, M.D.	<i>Assistant Physician</i>
VERA A. JOSEPH, B.A., M.D.	<i>Assistant Physician</i>
BETTY BAUM, M.S.S.	<i>Student Counselor</i>
NORMA EVELYN NELSON, M.S.S.	<i>Associate Student Counselor</i>
RUTH HOVER, R.N.	<i>Public Health Nurse</i>

THE INFIRMARY

RUTH SHAVER BROWN	<i>Administrator of Infirmary</i>
WILHELMINA POOR, MUS.B., R.N.	<i>Director of Nursing</i>
EILEEN B. MURPHY, B.A. (A.R.X.T)	<i>Laboratory and X-ray Technician</i>
ANNE M. KINGSBURY, B.S.	<i>Laboratory Technician</i>
GLADYS D. MARTIN	<i>Dietary Supervisor</i>
VIRGINIA B. DELANEY	<i>Medical Record Librarian</i>
HILDA CLARY MINSHALL, R.N.	<i>Nursing Supervisor</i>
ELIZABETH VICKERS ABARNO, R.N.	<i>Nursing Supervisor</i>
KATHRYN N. CUSHWAY, R.N.	<i>Nursing Supervisor</i>

HEADS OF HOUSE

MARGARET M. BABCOCK, A.B.	<i>Ellen Emerson House</i>
PATRICIA PARKS BUTTERFIELD, A.B.	<i>Jordan House</i>
ALICE MOFFATT MITCHELL CADEAU	<i>Gardiner House</i>
VIRGINIA L. CHRISTIE	<i>Director, Davis Student Center</i>
DOROTHY F. EDMONDS	<i>Laura Scales House</i>
ADELE M. FULLER	<i>Lamont House</i>
VIRGINIA GILLIES	<i>Cutter House</i>
LOUISE HARRAN	<i>Wilder House</i>
ELIZABETH KIRKHAM HAWKINS, B.A.	<i>Lawrence House</i>
RUTH B. HESSE	<i>Tyler House</i>
W. GRACE KING	<i>Morrow House</i>
IRENE KNAPP	<i>Chapin House</i>
LOUISE H. MACCONNELL	<i>Dewey House, Clark House</i>
ELIZABETH MACKENZIE	<i>Capen House</i>
MILDRED MCILVAINE	<i>Sessions House</i>
KATHARINE MILLS, L.R.A.M.	<i>Northrop House</i>

HEADS OF HOUSE

ALICE E. NICELY
MURIEL S. PARKER
CORA RICHARDSON, A.B.
MARTHA ROCHFORD
MARION F. RUMPF
MARY SANDOZ
FAITH HAVILAND SCHULTE
RUTH J. SEARLS
MARY L. SHAW, A.B.
ELEANOR SMART
DOROTHY M. STILLWAGON
MARY WHEATLEY STREET
EDITH L. THOMAS
JULIA WARNER, B.S.
REBECCA E. WEDGWOOD, A.B.
MARGARET WELTON
MAUDE F. WOODBURY
DORIS MCKAY WOODS
CONSTANCE WYCKOFF

Baldwin House
Albright House
Talbot House
Martha Wilson House
Parsons House, Parsons Annex
Dawes House
Hubbard House
Hopkins Group
Franklin King House
Comstock House
Gillett House
Tenney House
Morris House
8 Bedford Terrace, 30 Belmont Avenue
Park House, Park Annex, 150 Elm Street
Washburn House
Haven House, Wesley House
Cushing House
Ziskind House

STANDING COMMITTEES OF THE FACULTY

ON THE ORGANIZATION OF THE COLLEGE

COMMITTEES (*elected*)

The President, the Dean, Mrs Lazerowitz (1966), Mr Cohn-Haft (1966), Miss Siipola (1967), Miss Silbert (1967).

TENURE AND PROMOTION (*elected*)

The President (*chairman*), the Dean, Mr Charles Hill (1966), Mr Chinoy (1967), Miss Robinton (1968), Mr Weinstein (1969), Miss Gertrude Smith (1969).

FACULTY CONFERENCE (*elected*)

Miss Jean Wilson (1966), Mr Gotwals (1967), Mrs Hobbs (1968), Mrs Hoyt (1969), Mr McCartney (1970).

FACULTY PLANNING

Mr Chinoy (*chairman*), Mr Henderson, Mr Jules, Mr May, Mrs Musgrave, Miss Robinton.

**Absent for the second semester.

†Absent for the year.

COMMITTEES OF THE FACULTY

ADMINISTRATIVE BOARD

The Dean (*chairman*), the Dean of Students, the Class Deans, the Assistant Dean, the Registrar, the College Physician, Mr Harned, Mr Hellman, Mr Jones.

BOARD OF ADMISSION

The President (*chairman*), the Dean, Miss Schmann, Miss McGarry, Miss Russell, Miss Auerswald, Mr Fleck, Mr Harward, Mr McCartney, **Miss Ott, Miss Robinton, Mr Van Voris.

REGISTRATION OF STUDENTS

Miss Newhof (*chairman*), Miss Clute, Miss Benson.

CONFERENCE

The President, the Administrative Board, five members of the Student Council, four members of the House of Representatives.

CURRICULUM AND GUIDANCE OF STUDENTS

EDUCATIONAL POLICY (*elected*)

The President, the Dean (*chairman*), Mr Collignon (1966), Mr Henderson (1966), †Miss Schneiders (1966), Miss Corwin (1967), †Mr Caspary (1967), Mr Josephs (1967), Mr Elkins (1968), Mrs Dickinson (1968), †Mr Mair (1968). Substitutes for one year: Mr Harward, Mrs Kelley, Mr Rothman.

FOREIGN STUDENTS

Mrs Bramwell (*chairman*), Miss Bacon, Miss Corwin, Mr Durham, Mr Haddad, Mr Mbatha, Miss Navarro, Mr Overstreet, Mr Parad, Mrs Davis, Mrs Foster.

GRADUATE STUDY

Mr Sherk (*chairman*), the President, Mr Avalle-Arce, Mr Cohn-Haft, Mr Fink, Mr Haskell, Mr Johnston, Miss Mott, Miss Randall, Miss Gertrude Smith, Mrs Bramwell.

HONORS

Miss Jean Wilson (*chairman*), the President, the Dean, Mrs Fule, Mr Harris, Miss Horner, Mr Josephs, Miss Lincoln, Mr Rothman.

STUDY ABROAD

The Dean (*chairman*), the President, the Assistant Dean, the Chairman of the Departments of Art, French, German, Government, History, Italian and Spanish, the Treasurer, the Secretary of the Smith College Junior Year Abroad.

COMMITTEES OF THE FACULTY

OTHER COLLEGE BUSINESS

AID TO FACULTY SCHOLARSHIP (*elected*)

The Dean (*chairman*), the President, the Assistant to the President, Mr Petersson (1966), Miss Robinton (1967), Mr McCoy (1968), Mr McCartney (1969), Mrs Olmsted (*secretary*).

FACULTY OFFICES

Mr Charles Hill (*chairman*), Miss Navarro, Mr Sloane.

HONORARY DEGREES

Mrs Hoyt (*chairman*) (1966), **Mr Spees (1967), Mrs von Klemperer (1968), Mr Rose (1969).

JUNIPER LODGE

Miss Stobbe (*chairman*), Miss Jean Wilson, Mrs McClumpha (*secretary*).

LECTURES

Mr de Villafranca (*chairman*), Mr Aaron, Miss Bates, Mr Cohn-Haft, Mr Connelly, Mr Lazerowitz, Mr Rose, Mr Carpenter (*secretary*).

LIBRARY

Mr Murphy (*chairman*), the Librarian, Mr Dimock, Miss Gasool, Miss Merrill, Mr Poor, Mr Rothman.

MARSHALS

Mr Sherk, Miss Randall (*College Marshals*), Miss Benson, Mr Johnston, Miss Navarro, *Miss Elinor Smith.

MOTION PICTURES

Mr Jules (*chairman*), *Miss Afferica, Mr Cohen, Mr Collignon, Mr Connelly, Mrs Cantarella (*secretary*).

SCHOLARSHIPS

The President (*chairman*), the Dean, the Dean of Students, the Director of Scholarships, the Treasurer, Mr Hatch, Mr Hay, Mr Huntington, Mr Young, Mrs Bramwell.

STUDENTS' AID SOCIETY

Mrs Hobbs (*chairman*), Miss Lincoln.

CHAIRMEN OF ACADEMIC DIVISIONS

- I THE HUMANITIES: Mr Dimock
- II SOCIAL SCIENCES AND HISTORY: Mr Weinstein
- III NATURAL SCIENCES AND MATHEMATICS: Mr Josephs

History of Smith College

Smith College began in the conscience of a New England woman. The sum of money with which the first land was bought, the first buildings erected, and the foundations of the endowment laid had been amassed by a man who, like many Americans, had made a fortune without any apparent ulterior purpose. He seems to have bequeathed it to his sister because he had not made up his mind what else to do with it. Sophia Smith left it for the founding of a college for women because after much perplexity, deliberation, and advice, she had concluded that thus she could best fulfill a moral obligation.

The advice had its inception in the mind of a New England minister. From John Morton Greene, Sophia Smith received suggestions which she pondered and discussed, and from among which she finally accepted that which we must acclaim as the wisest and most beneficent. The idea that Mr. Greene presented and Sophia Smith adopted is clearly expressed in a passage in Sophia Smith's will that must be regarded as their joint production, drafted by him, amended and approved by her. The language is as follows:

I hereby make the following provisions for the establishment and maintenance of an Institution for the higher education of young women, with the design to furnish for my own sex means and facilities for education equal to those which are afforded now in our Colleges to young men.

It is my opinion that by the higher and more thorough Christian education of women, what are called their "wrongs" will be redressed, their wages adjusted, their weight of influence in reforming the evils of society will be greatly increased, as teachers, as writers, as mothers, as members of society, their power for good will be incalculably enlarged.

Later, after enumerating the subjects which still form the substance of the curriculum of the College, she adds: "And in such other studies as coming times may develop or demand for the education of women and the progress of the race, I would have the education suited to the mental and physical wants of woman. It is not my design to render my sex any the less feminine, but to develop as fully as may be the powers of womanhood, and furnish women with the means of usefulness, happiness and honor, now withheld from them." She further directed that "without giving preference to any sect or denomination, all the education and all the discipline shall be pervaded by the Spirit of Evangelical Christian Religion."

NOTE:—Among the sources of this account are the historical addresses given by President William Allan Neilson on the Fiftieth Anniversary and by Ada Comstock Notestein '97 (former Dean of Smith and President of Radcliffe) on the Seventy-Fifth Anniversary of the College.

HISTORY OF SMITH COLLEGE

When one considers what would today be regarded as the somewhat narrow and puritanical type of culture in which the authors of these sentences were living, one cannot fail to be impressed by their wisdom, liberality, and farsightedness. The general terms in which the purposes of women's education are defined are perfectly valid today. Provision is made for change of outlook and development in the scope of education. While the fundamentally religious interest of the founder is stressed, the College is kept clear of entanglement with institutional Christianity, and the only prescription is the pervading of instruction by the spirit of the gospel of Jesus Christ. This injunction has been obeyed in the past, we trust and believe it is being obeyed in the present, and there is no reason to believe that it will not be willingly and gladly observed in the future.

I

It is one thing to state an ideal and give a commission, it is another to carry them out. Laureus Clark Seelye in 1873 undertook the presidency of the new college, and in 1875 Smith College was opened with fourteen students. His inaugural address laid down the main lines of educational policy on which the new college was to run, and again it is amazing to note how little these have to be modified to describe the College of today. There is the same high standard of admission, matching that of the best colleges for men, the same breadth in the curriculum, the same emphasis on literature, art, and music. What we are less likely to note is the faith needed to establish these standards and to stick to them in an atmosphere of skepticism and ridicule.

For thirty-five years President Seelye carried the College forward. Its assets grew from the original bequest of about \$400,000 to over \$3,000,000; its faculty from half a dozen to 122; its student body from 14 to 1635; its buildings from three to 35. These figures are a testimony to his remarkable financial and administrative ability, yet they are chiefly important as symbols of a greater achievement. With few educational theories—none of them revolutionary—he had set going a process for the molding of minds and spirits of young women, had supervised the process for a generation, and had stamped upon several thousand graduates the mark of his own ideals and his own integrity.

II

It is hard to follow the king, and the problem which faced President Seelye's successor was no easy one. The growth of the College had acquired a strong momentum, and numbers increased of themselves; Marion Le Roy Burton's task was to perfect the organization for taking care of these numbers. This meant the modernizing of the business methods of the administration, the improvement of the ratio of instructors to students, the raising of salaries to retain and improve the staff, the providing of more adequate equipment, and the revision of the curriculum. The seven years of his service saw the further growth of the College to over

HISTORY OF SMITH COLLEGE

1900 students, the increase of its assets by over \$1,000,000, and substantial progress in educational efficiency. The business reorganization was well begun when in 1917 President Burton accepted the presidency of the University of Minnesota.

III

Now one of the largest women's colleges in the world, Smith College faced problems which it shared with both colleges and universities. President William Allan Neilson set about to develop all the advantages which only a large institution can offer, and at the same time to avoid any disadvantages which might be inherent in the size of the institution. While the number of instructors was constantly increased, the number of students was held to approximately two thousand. With the construction of further dormitories, each one of them housing sixty or seventy students in accordance with the original "cottage plan" of the founders, it became possible for all students to live "on campus." An expanded administrative system provided a separate Dean for each college class, a staff of five resident physicians, and a Director of Vocational Guidance and Placement. In addition, the curriculum was revised under President Neilson's guidance in order to provide a pattern now generally familiar in institutions throughout the country: a broad general foundation in various fields of knowledge followed by a more intensive study of a major subject.

There were other innovations. The School for Social Work resulted from a suggestion that the College give training in psychiatric social work and thus serve in the rehabilitation of veterans of World War I. The Smith College Day School and the Elisabeth Morrow Morgan Nursery School gave students in education a field for observation and practice teaching. The Junior Years Abroad, Special Honors programs, and interdepartmental majors in science, landscape architecture, and theatre added variety and incitement to the course of study.

Yet the great contribution of President Neilson's long administration did not lie in any of these achievements or in their sum. In his time Smith College came to be recognized in America and abroad not only as a reputable member of the academic community but as one of the leading colleges of this country, whether for men or women. Its position in the front rank was established. Its size, its vigor, the distinction of its faculty, and the ability of its alumnae were factors in this recognition; but a certain statesmanlike quality in its President had much to do with bringing it to the fore whenever academic problems were under discussion. Wherever Mr. Neilson went, his ability to penetrate to the heart of a question helped to clarify thinking, dissipate prejudice, and foster agreement; and the College rose with him in the estimation of the educational world and of the country.

IV

The fourth administration of Smith College began, like the third, in a time of international conflict, under the cloud of wars and rumors of wars. President Neilson

HISTORY OF SMITH COLLEGE

retired at the end of the academic year 1938-39; during the interregnum Mrs. Elizabeth Cutter Morrow served her college as Acting President and earned its deep gratitude. At the opening of the year 1940-41, President Herbert Davis, formerly Professor of English at the University of Toronto and at Cornell University, took office.

The college went into year-round session in order to allow for acceleration on an optional basis; members of the faculty and staff were called into many fields of government service. The Navy Department invited Smith College to provide facilities for the first Officers' Training Unit of the Women's Reserve, and between August, 1942 and the closing of the school in January, 1945 more than ninety-five hundred women received their commissions.

After the war, the College returned to the regular calendar, and a revised curriculum proposed by a Faculty Committee was adopted. Much-needed building projects were carried out. Among them was a new heating plant and the establishment of a student recreation hall which, at the request of the students, was named Davis Center in honor of their president, shortly before he left in June, 1949 to accept a post at Oxford University.

V

The anniversary year 1949-50 opened under President Benjamin Fletcher Wright, formerly Professor of Government at Harvard University and Chairman of that University's Committee on General Education. The Inauguration of the President and the Convocation in honor of the seventy-fifth year, held jointly on the 19th and 20th of October, were marked in word and spirit by recognition not only of the brilliant record of the past but of a great responsibility toward the future. "Our legacy is not narrow and confining," said Mr. Wright. "The founders of this College faced their own times with courage, and they had confidence that later generations would advance their work. We shall be faithful to that trust only if we carry on our heritage in their spirit." At the end of the year this confidence was notably demonstrated in the successful completion of the Seven Million Dollar Fund representing four years of devoted effort on the part of alumnae, students, and friends of the College.

Among the achievements of President Wright's administration were the introduction of interdepartmental courses and the expansion of the honors program. In spite of increasing financial burdens the economic situation of the College was improved, and faculty salaries were increased. After ten years in office, Mr. Wright resigned in order to resume writing and research in the field of constitutional law. Before leaving to take up a faculty fellowship at the Institute of Behavioral Sciences in Palo Alto, he announced the receipt of a large gift to the College to be used for a new faculty office and class room building to be named in his honor.

The sixth administration of the College was assumed in the fall of 1959 by Professor Thomas Corwin Mendenhall, who came to Smith College from the Department of

HISTORY OF SMITH COLLEGE

History at Yale University where his most recent administrative posts had been Master of Berkeley College and Director of the Master of Arts in Teaching program.

The growth of Smith College is evident enough in the contrast between the small beginnings and the present achievement: between the original corner lot of 13 acres and a campus of 292 acres, including the astronomy observatory site in Whately; between Sophia Smith's legacy of \$400,000 and total assets of \$66,256,249; between the first class of 14 and today's enrollment of 2,457; between the 11 graduates of 1879 and an alumnae roster of 32,996. Expansion has meant no change in the ideals set for the College by the founders and carried on by all the great company who have loved it and worked for it. By putting quality first, by coveting the best, by cherishing the values for which the College has always stood, those who serve it now are united in devotion and in commitment with all who have served it in the past. It is this corporate loyalty which has always been, and will continue to be, the abiding strength of Smith College.

THE WILLIAM ALLAN NEILSON CHAIR OF RESEARCH

The William Allan Neilson Professorship, commemorating his profound concern for scholarship and research, has been held by the following distinguished scholars:

- KURT KOFFKA, PH.D. *Psychology*. 1927-32.
G. ANTONIO BORGESSE, PH.D. *Comparative Literature*. 1932-35.
SIR HERBERT J. C. GRIERSON, M.A., LL.D., LITT.D. *English*. Second semester, 1937-38.
ALFRED EINSTEIN, DR. PHIL. *Music*. First semester, 1939-40; 1949-50.
GEORGE EDWARD MOORE, D.LITT., LL.D. *Philosophy*. First semester, 1940-41.
KARL KELCHNER DARROW, PH.D. *Physics*. Second semester, 1940-41.
CARL LOTUS BECKER, PH.D., LITT.D. *History*. Second semester, 1941-42.
ALBERT F. BLAKESLEE, PH.D., SC.D. (HON.) *Botany*. 1942-43.
EDGAR WIND, PH.D. *Art*. 1944-48.
DAVID NICHOLS SMITH, M.A., D.LITT. (HON.), LL.D. *English*. First semester, 1946-47.
DAVID MITRANY, PH.D., D.SC. *International Relations*. Second semester, 1950-51.
PIETER GEYL, LITT.D. *History*. Second semester, 1951-52.
WYSTAN HUGH AUDEN, B.A. *English*. Second semester, 1952-53.
ALFRED KAZIN, M.A. *English*. 1954-55.
HARLOW SHAPLEY, PH.D., LL.D., SC.D., LITT.D., DR. (HON.) *Astronomy*. First semester, 1956-57.
PHILIP ELLIS WHEELWRIGHT, PH.D. *Philosophy*. Second semester, 1957-58.
KARL LEHMANN, PH.D. *Art*. Second semester, 1958-59.
ALVIN HARVEY HANSEN, PH.D., LL.D. *Economics*. Second semester, 1959-60.
PHILIPPE EMMANUEL LE CORBEILLER, DR.-ÈS-SC. A.M. (HON.) *Physics*. First semester, 1960-61.
EUDORA WELTY, B.A., LITT.D. *English*. Second semester, 1961-62.
DÉNES BARTHA, PH.D. *Music*. Second semester, 1963-64.

Admission of Undergraduates

SELECTION OF CANDIDATES

The College seeks a student body of diverse economic and social backgrounds and one which is widely representative of the more able students from both public and independent schools in all parts of the country and from abroad. The Board of Admission meets in March each year to evaluate the records of the applicants to the Freshman Class. Its purpose is to select students who give evidence of possessing the particular qualities of mind and purpose which an education in the liberal arts requires and whose personal qualifications give assurance that they will be responsible and contributing members of the community. Both past achievement and capacity for intellectual development are given weight in this evaluation. The Board's estimate of the student's ability, motivation, and maturity is not based upon a prediction formula, but upon a careful and thorough review of all of the candidate's credentials, including her secondary school record, rank in class, recommendations from her school, results of the College Board examinations, and other available information. Although an interview is not required, it is recommended since it is often helpful both to the candidate and to the Board. Decisions are mailed in late April.

The Director of Admission welcomes correspondence with interested candidates, their parents, and school advisers.

SECONDARY SCHOOL PREPARATION

In planning her high school program, a candidate should consider the ways in which her choices will affect her achievement in college. There are no inflexible course requirements for entrance. A candidate is encouraged, however, to take the most intellectually stimulating program she can handle successfully. She is expected to master the basic intellectual tools and learn to think with accuracy, to see relationships, to read with comprehension, to write and speak with precision.

The discipline and the knowledge acquired from the study of English, languages, mathematics, science, and history have a general bearing upon all college studies. It is, therefore, recommended that the student complete a secondary school program which will give her at least sixteen credits in these areas. She is advised to take, in addition to four years of English composition and literature, a minimum of three

ADMISSION OF UNDERGRADUATES

years of foreign language or two years in two languages, three years of mathematics, one of laboratory science, and two of history. The electives may be in any of the above fields, and the student is free to pursue in depth the area of her greater interest.

No credit will be given for only one year of a language. Students are encouraged to take, in addition to a minimum of two or three years of a modern language, two years of Latin or Greek, if it is possible for them to do so. No half-credits will be granted, except in mathematics. Entrance credit may be granted for art, Bible, and music, but generally such credit is in addition to the sixteen in the areas recommended above.

The College is aware of the variation among school curricula and is willing to give careful consideration to able students whose programs differ from the recommended course of study.

The class is selected without emphasis on subject areas, but the Board takes particular interest in a candidate who has achieved a good overall record and has demonstrated special ability in one field.

APPLICATION FOR ADMISSION

An applicant for admission registers by submitting an application card which the Board of Admission furnishes upon request and by paying a registration fee of \$15 which is not refunded. If possible, such registration should be made well in advance of entrance to enable the applicant to receive the benefit of advice in making her entrance plans. Although the date of application is not considered in the selection of candidates, rooms in college houses are assigned to freshmen in order of their dates of application for admission. Applications must be received not later than January 15 in the year of entrance.

ENTRANCE TESTS

Smith College requires a total of three Achievement Tests, English and two others, chosen from two of these fields: language, mathematics *or* science, social studies. The tests may be divided between the junior and senior years, and every candidate should be able to offer a total of at least three without any alteration of program as it is normally planned in the school. Although no more than three Achievement Tests in different areas are required, it is advantageous for the applicant, in addition to offering the maximum number possible in January of the senior year, to take English and two other tests in May of the junior year for advisory purposes or for possible use in an Early Decision application.

The Scholastic Aptitude Test is required in December or January (preferably December) of the senior year. Students are also encouraged to take this examination in March or May (preferably March) of the junior year.

ADMISSION OF UNDERGRADUATES

All candidates should make application to take the College Board examinations by writing to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 or the College Entrance Examination Board, Box 1025, Berkeley, California 94701. Applications and fees should reach the appropriate office at least one month before the date the tests are to be taken.

EARLY DECISION ON ADMISSION

Candidates who are clearly qualified in every respect and have made application *only* to Smith College may submit their applications for consideration at the November meetings of the Board of Admission. Students should not apply under this plan unless they have the approval of their school principal or counselor. These applications must be made by October 1 of the senior year, and candidates will be notified of the Board's decision late in November. Decisions are based upon the same general criteria as at the spring meetings, except that the record is a three-year one. The Scholastic Aptitude Test should be taken in March of the junior year and the three Achievement Tests in May.

Candidates interested in this admission procedure should write to the Board of Admission for the pamphlet, *Plan for Early Decision on Admission*.

ADVANCED PLACEMENT PROGRAM

Smith College participates in the Advanced Placement Program which is administered by the College Entrance Examination Board. College credit will be given for scores of 4 or 5 on Advanced Placement examinations. Students receiving such credit may be exempted from certain requirements of the curriculum.

FOREIGN STUDENTS

Smith College is interested in admitting qualified foreign students. Applicants are advised to communicate with the Director of Admission well in advance of entrance in order that the College may advise them concerning entrance plans. They should include in their initial letter detailed information about their total academic background.

ADMISSION WITH ADVANCED STANDING

The College admits each year a small number of sophomores and juniors by transfer from other institutions. Candidates for admission with advanced standing are judged on the following criteria: school and college records and recommendations, and results achieved on the Scholastic Aptitude Test. Their college programs should

ADMISSION OF UNDERGRADUATES

correlate with the general college requirements given on p. 43 of this catalogue. With the request for the application form, students should include a detailed statement of their previous educational experience and their reasons for wishing to transfer. To be eligible to make application, a student is expected to be doing work of honor grade at the institution she is attending. Candidates are advised not to apply until after they have received their midyear grades. Applications should, however, be on file not later than February 15 of the year of entrance. Decisions are mailed before May 1.

Successful candidates are given credit without examination for acceptable work taken at another college. Shortages incurred when previous work is not accepted for the Smith College degree may be removed by carrying hours above the minimum or taking work in an approved summer school. During their first semester in residence, advanced standing students may not elect more than seventeen hours except by permission of the Administrative Board. Candidates for the degree of Bachelor of Arts are ordinarily required to spend at least two years in residence at Smith College.

READMISSION

A student who has withdrawn from college may apply to the Administrative Board for readmission. Application for readmission in September should be sent to the Registrar before April 1; for readmission in February before December 1.

In general, students who have withdrawn from college at the end of the first semester will be permitted to return only in the following February.

NONCOLLEGIATE STUDENTS

Qualified persons beyond the age of the undergraduate may be admitted to courses of study or to supervised research work with the approval of the Registrar and the instructor concerned. Auditors must obtain the permission of the Registrar and of the instructor concerned. (See pp. 188-189 for fees.)

The Curriculum

As candidates for the degree of Bachelor of Arts, undergraduate students normally follow a four-year program in which they are required to complete one hundred and twenty hours of academic work as well as prescribed courses in physical education.* For graduation they must achieve a cumulative average of at least C (fair) in their academic work, an average of C or better in the senior year, and a grade of C or better in 40b or in the general examination. In computing averages, plus and minus signs are not taken into account. The minimum schedule for a semester consists of fifteen credit hours.

When plans can be approved before the end of the freshman year, it is possible in special cases for students to complete the work in three years by attending summer sessions elsewhere. Only in rare instances is the degree granted after a residence at Smith College of less than two years, one of which must be the senior year.

ORGANIZATION OF THE CURRICULUM

DIVISION I. THE HUMANITIES

GROUP A. *Literature*: Classics, English, French, German, Italian, Russian, Spanish, Biblical Literature, General Literature

GROUP B. *Fine Arts*: Art, Music, Theatre and Speech

GROUP C. *Philosophy, Religion*

DIVISION II. SOCIAL SCIENCES AND HISTORY

GROUP D. *History*

GROUP E. *Social Sciences*: Economics, Education, Government, Sociology, Social Science

DIVISION III. NATURAL SCIENCES AND MATHEMATICS

GROUP F. *Physical Sciences and Mathematics*: Astronomy, Chemistry, Geology, Physics, Physical Science, Mathematics

GROUP G. *Biological Sciences*: Bacteriology, Botany, Psychology, Zoology, Biological Science

*For this requirement in Physical Education see page 139.

NOTICE

The requirements for graduation from Smith College itemized on pp. 42-45 will be superseded in September, 1966, by a new set of regulations. Students entering the College at that time as well as the Classes of 1968 and 1969 will fulfill the following requirements:

As candidates for the degree of Bachelor of Arts, students will normally follow a four-year program in which they are required to complete thirty-two semester courses of academic work as well as prescribed courses in physical education. For graduation they must achieve a cumulative average of at least C in their academic work and an average of C or better in the senior year, and must pass two examinations in their major. In computing averages, plus and minus signs are not taken into account. The minimum schedule for a semester consists of four courses.

College credit will be given for scores of 4 or 5 on Advanced Placement examinations. Students receiving such credit may be exempted from some requirements. Students with lower scores may be admitted to advanced courses. Decisions on all matters concerning exemption and placement will be made at the time of registration by appointed representatives of the appropriate departments.

When plans can be approved before the end of the freshman year, it is possible in special cases for students to complete the work in three years by attending summer sessions elsewhere. Only in rare instances is the degree granted after a residence at Smith College of less than two years, one of which must be the senior year.

SPECIAL REQUIREMENTS

- (1) Two semester courses in natural science. Normally students will fulfill this requirement in laboratory science: Astronomy, Bacteriology, Botany, Chemistry, Geology, Physics, Psychology, Zoology. The required hours may be taken in two departments.

Exemption from this requirement will be granted to students who have achieved a score of 4 or 5 on College Board Advanced Placement Examinations or passed an examination in one or two of these fields after the opening of college.

- (2) Two semester courses in a foreign language previously studied in school or four semester courses or an intensive one-year course in a language begun in college.

Provision will be made for exemption from this requirement on the basis of a College Board Advanced Placement Examination or an examination administered after the opening of college.

- (3) Thirteen semester courses outside the area of concentration (two-fifths of the hours required for graduation). Courses taken to fulfill the science

and language requirements will be included in this category for students not majoring in the departments in which the requirements were met.

- (4) A minimum of three semester courses in a department other than the department of the major. At least two of these courses must be of intermediate, advanced, or graduate level.

THE MAJOR

Major programs, which are offered in all departments except Physical Education, are prescribed by the departments. In the sophomore year, each student must select a major field; she may make this decision in the fall of that year, if she chooses to do so, and must make it by spring. When a student enters upon her major, she comes under the direction of a major adviser and obtains the approval of that adviser for her major program, including a tentative specification of the field or other departmental examinations that she proposes to take, and the time at which they will be taken.

A minimum of eight and a maximum of ten semester courses is required in the department of the major in addition to the basic course. Additional courses may be elected in the major department.

The subject matter of each department is subdivided into several fields. The student must pass two examinations in the major department, one in a particular field, the other of a nature defined by the department. In a semester in which juniors or seniors take these examinations, they will be exempt from final examinations in courses related to the departmental or field examinations.

The curriculum includes interdepartmental majors in Bacteriology, Biochemistry, Premedical Science, American Studies, Ancient Studies, German Civilization Studies, Latin American Studies, and Russian Civilization Studies.

Phyllis Williams Lehmann

Dean

Northampton, Massachusetts

November, 1965

GENERAL COLLEGE REQUIREMENTS

The program of the first two years of the college course is generally diversified, while the last two years are devoted primarily to study in a major field which is chosen at the end of the sophomore year.

Because the College considers experience in certain fields of knowledge essential to a liberal education, it has set a number of special and distribution requirements to be completed before graduation.

College credit will be given for scores of 4 or 5 on Advanced Placement examinations. Students receiving such credit may be exempted from some of the special and distribution requirements. Students with lower scores may be admitted to advanced courses. Decisions on all matters concerning exemption and placement will be made at the time of registration by appointed representatives of the appropriate departments.

SPECIAL REQUIREMENTS

- (1) Six semester hours in Freshman English, required in the first year.

Students who have received a grade of 4 or 5 in the Advanced Placement Examination in English given by the College Entrance Examination Board will be exempted from the requirement. Those who have received a grade of 3 together with exceptionally high scores in the Verbal Aptitude and English Achievement tests may petition for exemption.

Freshmen who fail to obtain a satisfactory grade in English 11 must work tutorially in sophomore year with the Committee on Special Assistance in Written English.

- (2) Six semester hours in a foreign language. The minimum prerequisite for courses which fulfill the requirement is three entrance units in a language or six hours in college. Courses which fulfill the requirement are marked (L) and are offered in the following departments: Classics, French, German, Italian, Russian, Spanish. Modern language courses numbered 12 will not fulfill the requirement unless preceded by 11.
- (3) Students entering without units in Latin or Greek are required to take either Latin 11 or Greek 11, or six hours of classical literature in translation.

DISTRIBUTION REQUIREMENTS

- (1) Six semester hours in literature (Group A: Classics, English, French, German, Italian, Russian, Spanish, Theatre and Speech [Section A], Biblical Literature, General Literature). This requirement may be fulfilled with a literature course in the language used to fulfill the foreign language requirement, or in a different language. (In certain cases, the language and literature requirements may be met by one and the same course, as indicated in each language department.)

THE CURRICULUM

- (2) Six semester hours in Art, Music, Theatre and Speech (Group B), or Philosophy, Religion (Group C). Students are urged to take six semester hours in each group if possible.

- (3) Six semester hours in History (Group D).

Exemption from this requirement will be granted to students who (1) achieve a satisfactory grade on the College Board Advanced Placement Examination; or who (2) offer at least three units of the proper content: ancient, American, European (medieval and modern, or modern since 1600) and pass an examination in one of these fields administered by the Department after the opening of college. (This examination may be taken at the beginning of either the freshman or sophomore year.) See section on History Department offerings for additional information.

- (4) Six semester hours in Economics, Government, Sociology, or Social Science (Group E).

In rare cases students with preparation in these fields may be granted exemption on the basis of an examination. Applications should be made to the Class Dean.

- (5) Six semester hours in Astronomy, Chemistry, Geology, Physics, Physical Science (Group F) or Botany, Zoology, Biological Science (Group G). Students are urged to take six semester hours in each group if possible.

Students who have had two years of laboratory science in the last three years of secondary school may fulfill this requirement through certain prescribed courses in mathematics or psychology.

The courses which may be taken to fulfill these distribution requirements are named at the head of each department offering and specified in the list of Inter-departmental Courses on page 14.

THE MAJOR

In the junior and senior years the student devotes half or more of her time to study in a single field selected on the basis of a course or courses taken in the first two years. Major programs, which are offered in all departments except Physical Education, are prescribed under the department offerings (see pp. 17 ff.). When a student enters upon her major she comes under the direction of a major adviser and obtains the approval of that adviser for her major program.

Of the thirty semester hours required in the major at least eighteen must be in courses of Grade III or higher in the field of concentration and of these twelve must be in the department. Students are required to take not less than twelve hours in the major field in each of junior and senior years. Courses taken in sophomore year, exclusive of the basic course, may be counted in the major.

At least six semester hours in the junior or the senior year must be taken in a division other than the one in which the student is majoring.

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In the junior and senior years not more than twelve semester hours of Grade I, and not less than twenty-four semester hours above Grade II, may be taken for credit toward graduation.

The curriculum includes interdepartmental majors (pp. 138 ff.) in Bacteriology, Biochemistry, Premedical Science, American Studies, Ancient Studies, German Civilization Studies, Latin American Studies, and Russian Civilization Studies.

THE JUNIOR YEAR ABROAD

Students in good standing and with sufficient language training may, if conditions permit, spend the junior year in certain foreign countries in groups directed by members of the Smith College Faculty. The Junior Years in Paris, Italy, Spain, and Germany are intended primarily for language majors, and the Junior Year in Geneva primarily for students majoring in economics, government, history, or sociology. Majors in other fields with adequate preparation in language may apply to the appropriate committees with the consent of the department of the major. An honors candidate should consult the director of honors in her department before going abroad. Qualified students who spend the junior year abroad may apply for admission to the honors program in the senior year. Properly prepared students from other colleges may be admitted to the groups.

The Junior Year Abroad is planned to afford as rich an opportunity as possible to observe and study the countries visited. Art, music, and theatre are available, and the Directors arrange occasional meetings with outstanding scholars, writers, and leaders. During the vacations students are free to broaden their acquaintance with the country, although they may stay in residence if they prefer.

Applications, including permission from parents, must be made by February 1 at the Office of the Registrar. (Applications from students in colleges other than Smith must be accompanied by a fee of ten dollars, which is not refunded.) The selection of members for each group is determined by a special faculty committee. Candidates must meet the health requirements set by the College Physician.

The Directors of the groups are granted by the College full control in matters of behavior and discipline, although the details of group procedure are worked out with student committees. These social regulations are comparable to those which obtain at Smith College but in each case are adapted to the customs of the country. The supervision of the Director ends with the close of the academic year.

The fee covering tuition, room, and board is \$2950 for the academic year 1966-67, and will be \$3100 for the academic year 1967-68; travel and incidental expenses vary according to individual tastes and plans. A deposit of \$50 is payable within 30 days by students who have been provisionally accepted. It is credited on the second semester bill and is not refunded unless written notice of withdrawal from the group is received before June 1. Payment for the first semester should be made by July 10; for the second semester, by December 10. Checks should be sent to the Treasurer of Smith College, Northampton.

THE CURRICULUM

Neither the College nor the Director accepts any responsibility for personal injury to members of a group or for damage to or loss of property. Students are required to carry health and accident insurance which is available through a general college plan.

PARIS: Arrangements are made for students to live in Paris with carefully selected families. Full-time junior programs consisting of work in French literature, history, art, and other aspects of French culture are planned by the Director. Courses are given by professors from the Sorbonne and other institutions. The language requirement for admission to the group is usually two years of college French beyond three entrance units.

ITALY: The work of the year begins with a month in Siena where study of the language and of art and literature is undertaken with special instructors. After the first of October this study is continued in Florence. About the middle of November the group starts work in classes conducted especially for Smith College by professors of the University of Florence and in courses at the University. The subjects offered are Italian art, history, language, and literature. In Florence the students live in private homes chosen by the Director. The minimum requirement for admission is normally two years of college Italian. By special action of the committee, promising students with only one year of Italian may be accepted.

SPAIN: After a preliminary month of intensive training in language spent in Barcelona, the juniors go to Madrid for the year's course of study. There they live with carefully selected families. A program consisting of courses in Spanish literature, philosophy, history, and art is planned by the Director and given by professors from the University of Madrid and other institutions. A minimum of two years of college Spanish is the normal requirement for admission.

GENEVA: The work in Geneva emphasizes international studies rather than the history and culture of a single country, and accordingly the group is composed primarily of majors in history, government, economics, and sociology. The program consists of courses in diplomatic and contemporary history, international economics and finance, international law, and similar subjects given at the University of Geneva and the Graduate Institute of International Studies. As the classes are conducted in French, students are encouraged to offer two years of college French beyond three entrance units; a minimum of one year of college French is required. It is strongly urged that work in at least two fields of the social sciences be offered.

GERMANY: The work of the Junior Year at Hamburg consists largely of courses taken at the University supplemented, wherever necessary and desirable, by work with German tutors or by specially arranged courses. Courses in German literature, philosophy, art, music, and history are available. A preliminary eight-week period of intensive language training is spent in Bavaria. A minimum of two years of college German is the normal requirement for admission.

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EXCHANGE PROGRAM WITH TORONTO

Since 1945 an exchange of students in the junior class with the juniors at the University of Toronto has proved to be highly successful. For the year the Smith juniors live in the colleges of the University and carry on programs approved by their major advisers. Candidates from Smith must have demonstrated their ability to do work of Dean's List rating and have the approval of the chairman of their major department. Four exchanges may be arranged in any one year.

FOUR COLLEGE COOPERATION

Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts have for some time combined their academic activities in certain selected areas for the purpose of extending and enriching their collective educational resources and have worked out procedures for the proper utilization of these resources by each member of the group. As a result, a student in any one of the four institutions may take a course for credit in any of the other three if he or she has the necessary qualifications for the work of the course and if the request is approved by the student's own Dean. Catalogues of the courses offered in the other institutions are at the loan desk in each library and in the offices of all chairmen of departments. Application blanks are in the office of the Dean and that office will help with the arrangements for transportation. Requests are usually for advanced courses in the student's major subject and are normally granted only to students in good standing.

The oldest and probably the most important of the cooperative ventures is the Hampshire Inter-Library Center (HILC), a separate legal entity controlled by a Board of Directors made up of the four Presidents, the four Librarians, and representatives from each of the Faculties. HILC is a depository for research materials and learned periodicals of a kind and in a quantity well beyond the reach of any one of the four libraries operating independently: it is now located in the new wing of the Goodell Library on the campus of the University of Massachusetts. The FM Radio Station (Western Massachusetts Broadcasting Council, Inc., WFCR 88.5) is likewise a legal entity, controlled by a Board of Directors made up of representatives of all four institutions.

A cooperative Ph.D. program has been established. The degree is awarded by the University of Massachusetts but the work leading to the degree may be done in the various institutions. Students interested in this program should write to the Dean of the Graduate School, University of Massachusetts, Amherst, Massachusetts.

Among other cooperative activities, all designed to give added strength in one way or another to each individual institution, are the following: a joint Astronomy Department; courses in Asian-African Studies, financed by the Ford Foundation; a Film

THE CURRICULUM

Center; a common Calendar of lectures and concerts on all four campuses; a committee on transportation, with an executive chairman; and a Coordinator who is a member of the administration in all four institutions. Additional cooperative projects are in the planning stage.

THE DEGREE WITH HONORS

PURPOSE: The Honors Program is strongly recommended for all juniors and seniors who have achieved or approximated a Dean's List average. This program allows for flexibility in the planning and execution of the work of the major and at the same time gives recognition to students who do work of good quality in the preparation of a long paper, as well as in their courses and units or seminars.

AWARD: The degree with honors is voted by the faculty on the recommendation of the Honors Committee, to whom Departments recommend honors in three grades: *summa cum laude*, *magna cum laude*, *cum laude*. Awards are based on consideration of (a) an independent piece of work which usually involves writing a long paper, (b) three final examinations, (c) an estimate of work in courses and units. Evaluation by Departments and by the Committee takes into account all portions of the student's record that are deemed relevant.

A student who fails to be awarded honors will be granted a degree without honors if her work is of sufficient merit.

ADMISSION: A student having an average of B for the three semesters preceding her application is eligible for honors. Other students may be admitted on the recommendation of the department of the major and with the approval of the Committee on Honors.

Subject to special requirements of individual departments students may enroll at the beginning of either semester of junior year or at the beginning of senior year. They may withdraw only upon recommendation of the department of the major and with the approval of the Committee.

UNITS: Honors units will normally be limited to ten students; exceptions up to the number of twelve may be permitted on the recommendation of the director of honors with the approval of the instructor. Priority among honors students for admission to units will be determined by need and qualifications.

PRIVILEGES: An honors candidate will have the greatest possible elasticity in the arrangement of her program (with the permission of the director she may carry less than fifteen hours) and will be exempt from all course examinations at the end of the senior year. Honors students will be given preference over other undergraduates when admission to units must be limited, and may be given such preference when admission to seminars must be limited.

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THE DEGREE WITH DISTINCTION

The Degree with Distinction is awarded to students who maintain a minimum average of 3.4 for the senior year and who have achieved a cumulative average of 3.5 or better in the sophomore, junior, and senior years.

ACADEMIC RECORD

Grades signify the following: A, excellent; B, good; C, fair; D, poor; E, failure.

The Dean's List consists of students who have achieved an average of B (3.0) or better in the work of the preceding year. It is computed by counting each semester hour of A as 4 points, B as 3, C as 2, D as 1, E as 0. Plus and minus signs are not counted.

For graduation a student is required to have a cumulative average of at least C (2.0) in her academic work, an average of C or better in the senior year, and a grade of C or better in 40b or in the general examination.

A student may not enter the senior year with a shortage of hours.

A shortage of hours incurred through failure in a course must be made up before graduation by an equivalent amount of work at the same or higher level carried above the minimum or completed in an approved summer school.

A student who has failed in the work of five or more hours in two consecutive semesters or in any three semesters, or has failed in the work of ten or more semester hours in a year is dismissed from college unless special exception is made by vote of the Administrative Board.

A student whose college work or conduct is deemed unsatisfactory is subject to separation from the College.

PHI BETA KAPPA

The Zeta of Massachusetts Chapter of the Phi Beta Kappa Society was established at Smith College during the year 1904-05, and the first undergraduates were elected to membership in April. In 1920 provision was made for the election of a small number of juniors. Rules of eligibility are established by the Chapter in accordance with the regulations of the national Society.

SOCIETY OF THE SIGMA XI

Smith College was the first woman's college to be granted a charter for the establishment of a chapter of the Society. Each year the Chapter elects to membership promising graduate students and seniors who excel in science.

THE CURRICULUM

RULES GOVERNING ELECTION OF COURSES

Each student is expected to make herself familiar with all regulations governing the curriculum and is responsible for planning her four years of study in accordance with the requirements.

Certain conditions require the presentation of permission slips or of petitions to the Administrative Board. Freshmen and sophomores may obtain these forms from the Office of the Class Deans; upper classmen from the Office of the Registrar.

Petitions to the Administrative Board, which must have the recommendation of the chairman of the department and of the instructor concerned, are required of:

1. All students to enter a course for which they have not had the stated prerequisite.
2. All students to carry less than 15 hours or more than 17 hours in a semester. A shortage of hours permitted by the Board may be made up by a corresponding excess of hours distributed over succeeding semesters.
3. All students to enter the second semester of a year course.
4. All students requesting credit for the first semester of a year course which they propose to drop.
5. Freshmen and sophomores to enter a course of higher grade than is normally open to their class.
6. Juniors who are not candidates for honors to take a course of Grade IV or a seminar.
7. Seniors to carry more than three hours of Grade V a semester except in technical art and practical music.

Permission of the department is required for:

1. Seniors to take Special Studies of Grade IV. These studies are limited to seniors who have had twelve semester hours above Grade I and are majoring in the department concerned.
2. Seniors to take Grade V courses. Permission will be given only to those seniors who have a major or its equivalent in the department and if they have at least a B average in that major.

Permission of the instructor is required for seniors to enter a seminar. Only one seminar a semester is permitted except in the case of honors candidates. A seminar is limited to twelve students.

Changes in courses may be made until September 4. Later changes may be made only during the first two weeks of college.

THE CURRICULUM

1. Freshmen and sophomores should file requests for changes in the Office of the Class Deans; juniors and seniors in the Office of the Registrar.
2. Permission to drop hours of work carried above the minimum will not be granted after November 13 for the first semester and after April 6 for the second semester.

A student is not allowed to attend a class either as an occasional or as a regular auditor except with the permission of the instructor in charge of the course.

Smith College

COURSES OF STUDY

1965-1966

Key to Symbols and Abbreviations

Courses are arranged in five grades indicated by the first digit in the course number. Those of Grade I are primarily for freshmen, those of Grade II for sophomores. Courses of Grade III are for juniors and seniors but are also open to sophomores when a statement to that effect is included in the description. Grade IV courses are for seniors, honors students, and qualified juniors. Grade V courses are for graduate students and qualified seniors.

An "a" after the number of a course indicates that it is given in the first semester; a "b," that it is given in the second semester.

Where no letter follows the number of the course, the course runs through the year.

An "s" following a Grade I course number indicates that a special seminar section is available in the second semester to qualified freshmen.

Unless otherwise indicated, all year courses carry credit of six hours; all semester courses, three hours.

The numerals after the letters indicating days of the week show the scheduled hours of classes. Where scheduled hours are not given for courses or for laboratory work, the times of meeting are arranged after elections are made.

[] Courses in brackets will be omitted for the year.

Dem. indicates demonstration; lab., laboratory; lec., lecture; rec., recitation; sect., section; dis., discussion.

An "L" in parentheses at the close of the description of a course in the foreign language and literature departments indicates that the course may be taken to fulfill the foreign language requirement.

Explanation of marks before instructors' names: †absent for the year; *absent for the first semester; **absent for the second semester; §Director of a Junior Year Abroad; ¹appointed for the first semester; ²appointed for the second semester.

INTERDEPARTMENTAL COURSES*

BIOLOGICAL SCIENCE 191a. *Cell Biology*. The fundamental properties of living cells are studied by means of representative examples from the plant, animal, and microbial kingdom. Similarities and differences in structure and function among these cell types are examined both in lectures and laboratory work. Emphasis is placed on the experimental approach to problems of current interest in biology. Open to a limited number of freshmen with strong high school chemistry and biology backgrounds. Three lectures, one three-hour laboratory per week. Lec. M T W 11; lab. T 2-5. Mr Shapiro, Miss Tyrrell, Miss Merrill.

[BIOLOGICAL SCIENCE 195. *The Living World*. An appreciation of life as exhibited in the form, function, inheritance, and evolution of living organisms with special emphasis on the relationship of man to the equilibrium of nature. This course is not open to students who have had a laboratory course in biology. Lecture, three hours; laboratory, two hours. (This course is designed primarily for students who, at the time of entering, do not intend to major in science.) Lec. M T W 9; lab. Th 11-1, 2-4; F 9-11, 11-1.]

BIOLOGICAL SCIENCE 296a. *Genetics*. A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite, a Grade I course in zoology, botany, or biological science. Open to students majoring in sociology or education by permission of the instructor. Two lectures, two two-hour laboratory periods. Th F 2-5. Mr Shapiro.

GENERAL LITERATURE 291. *A Study of Selected Literary Masterpieces from Homer to Tolstoy*. Lec. W 2. Section meetings M T W 10, 12, 2; W Th F 2, 3; Th F S 9, 10, 11. Mr Connelly (*Director*), Miss Lincoln, Miss Muchnic, Mr Petersson, Mrs Adams, Mr Zahareas, Mr Hindmarsh. (Group A)

HISTORY AND SOCIAL SCIENCE 293. *American Ideas and Institutions*. A study of American life and thought through the intensive analysis of four representative generations from the eighteenth to the twentieth century. The adaptation of American values to changing economic, political, and social conditions. Th F S 10. Miss Kenyon and Mr Fink, first semester; Mr Mann and Mr Renzulli, second semester.

*For Interdepartmental Majors, see pp. 177 ff.

INTERDEPARTMENTAL COURSES

- HISTORY AND SOCIAL SCIENCE 294b. *Contemporary India and Its Role in Asia*. Emphasis will be placed on the struggle to achieve independence and nationhood, the heritage of British ideas and practices, problems and methods of economic, social, and political development, and India's role in Asian and world politics. Th F S 12. Mr Overstreet.
- HISTORY AND SOCIAL SCIENCE 295a. *Africa South of the Sahara*. An introductory study of political, economic, and social factors. Th F S 9. Miss Bates.
- HUMANITIES, HISTORY, AND SOCIAL SCIENCE 493b. *Soviet Russia*. A study of political, economic, social, and cultural life in the Soviet Union. Prerequisites: History 217b or Economics 319a or Government 36 (a) and permission of the instructor. Th 7:30. Miss Afferica.
- PHYSICAL SCIENCE 193. *The World of Atoms*. A course in principles designed (1) to convey contemporary ideas about nuclear, atomic, and molecular structure, and (2) to develop an understanding for the methods of physical science. Chemical, astronomical and physical ideas are discussed in relation to each other and developed in a logical manner. The historical growth of scientific concepts is traced from the Greeks to the present. (This course is designed primarily for students who, at the time of entering, do not intend to major in science.) Lec. Th F S 11; dis. W 10, 12. Mr Josephs (*Director*), Mr Sherk.

COURSES OFFERED UNDER INTERCOLLEGIATE AUSPICES

- ARABIC 101. *Modern Literary Arabic*. Grammatical construction, pronunciation, selected readings. M T W 3. Mr Haddad.
- ARABIC 201. *Intermediate Arabic*. Reading and translations. Prerequisite, 101 or permission of the instructor. Hours to be arranged. Mr Haddad.
- ARABIC 301. *Advanced Arabic*. Prerequisite, 201, or permission of the instructor. Mr Haddad.
- CHINESE 11. *Modern Chinese (elementary)*. An introduction to Chinese sounds, to basic language patterns of spoken Chinese, and to the recognition of Chinese characters. M F 4-5:30 and two laboratory hours to be arranged. Mr Kung.
- CHINESE 12. *Modern Chinese (intermediate)*. Conversational Chinese and reading of modern Chinese writings, additional sentence patterns and characters and their combinations. Prerequisite, 11. T Th 2:30-3:45 and two laboratory hours. University of Massachusetts. Mr Kung.
- [CHINESE 21. *Classical Chinese*.]

INTERDEPARTMENTAL COURSES

CHINESE 22. *Modern Chinese (advanced)*. Advanced study of grammatical structure of Chinese and readings in modern literary Chinese materials. Prerequisite, 12 or the equivalent. Hours to be arranged. First semester, Smith College; second semester, University of Massachusetts. Mr Kung.

HISTORY OF SCIENCE 398a. *The Darwinian Revolution*. Themes in the history of nineteenth-century science, with the focus on the work and influence of Darwin, his predecessors, opponents, and followers. The role of biology, physics, and the sciences of man in shaping the modern world view is examined. M 2-4:30. Mr Fruchtbaum.

HISTORY OF SCIENCE 398b. *The Newtonian Synthesis*. The biological and physical sciences from the Greeks to the nineteenth century with the focus on the work and influence of Newton, his predecessors, opponents, and followers. The course emphasizes the significance of scientific ideas in intellectual history. Amherst College. M 2-4:30. Mr Fruchtbaum.

HISTORY OF SCIENCE 399a. *The Non-Scientific Foundations of Science*. The influence of theology and philosophy on the history of science. Topics include the role of teleology and natural theology in the development of astronomy, geology, and biology, and the inter-relations of science and religion. Mount Holyoke College. T 2-4:30. Mr Fruchtbaum.

HISTORY OF SCIENCE 399b. *Science in America*. A history of scientific ideas and institutions in America from the colonial period to the twentieth century. Lectures and discussions will consider the mutual impact of science and American culture. University of Massachusetts. T 2:30-5. Mr Fruchtbaum.

ART

PROFESSORS:

HENRY-RUSSELL HITCHCOCK, A.M.
 PHYLLIS WILLIAMS LEHMANN, PH.D.
 PRISCILLA PAINE VAN DER POEL, A.M.
 GEORGE COHEN
 †CHARLES WHITMAN MACSHERRY, PH.D.
 LEONARD BASKIN, B.A.
 MERVIN JULES, *Acting Chairman, second semester, 1965-66*
 CHARLES SCOTT CHETHAM, PH.D., *Director of the Museum*
 **JAMES HOLDERBAUM, PH.D., *Chairman*

ASSOCIATE PROFESSORS:

JAY RICHARD JUDSON, PH.D.
 ROBERT MARK HARRIS, PH.D.
 PETER GARLAND, B. ARCH.
 WILLIAM LLOYD MACDONALD, PH.D.

ASSISTANT PROFESSORS:

DAVID CAREW HUNTINGTON, PH.D.
 **ELLIOT MELVILLE OFFNER, M.F.A.

INSTRUCTORS:

EDWARD JOSEPH HILL, M.F.A.
 BERNARD MICHAEL BOYLE, M. ARCH., M.A.
 LYNN SCHAEFFER HECHT, A.M.

LECTURERS:

DENNIS BYNG, M.S.
 †IRIS HOFMEISTER CHENEY, PH.D.
 RITA ALBERS JULES
 JOHN FERRATA OMELIA, A.M.

The courses in art which may be taken to fulfill the distribution requirement in Group B are 11, 13, or 6 hours in courses above Grade I that have no prerequisite.

Students planning to major or to do honors work in art will find that courses in literature, philosophy, religion, and history taken in the first two years will prove valuable. Botany 11 and 27 are recommended to students who have a special interest in landscape architecture.

A. Historical Courses

Each of the historical courses may include one or more trips to Boston, New York, or the vicinity for the study of original works of art.

A reading knowledge of foreign languages, especially German, Italian, and French, is urgently recommended.

- 11 *Introduction to the History of Art.* Important works of art, from ancient Egypt to the present (including painting, sculpture, and architecture), are studied historically and analytically. Illustrated lectures are given by members of

the department. W Th F 3; one-hour discussion periods distributed throughout the week. Members of the Department. Mr Judson (*Director*).

- [11s *Introduction to the History of Art* (second semester). Restricted to 15 students selected from those taking 11. Th 7:30-10.]
- 15a *Introduction to Historical Architecture*. Major representative works of Western architecture will be studied as stylistic and historic documents. Th F S 10. Mr MacDonald.
- 31a *The Art of Greece*. Architecture, sculpture, painting, and the minor arts from the prehistoric background to the late Hellenistic age. Given in alternate years. Open to sophomores. M T W 10. Mrs Lehmann.
- 31b *The Art of Rome*. Architecture, sculpture, painting, and the minor arts from the late Hellenistic and Etruscan backgrounds to the late antique antecedents of Christian art. Given in alternate years. Open to sophomores. Recommended background, 31a or 11. Th F S 10. Mr MacDonald.
- [32a, b *Cities, Sanctuaries, and Royal Residences*. The art of antiquity considered via the major Greek and Roman excavation sites from Minoan Knossos to Imperial Trier. Alternates with 31a and b. Open to sophomores. Prerequisite for 32b, 32a. M T W 10.]
- 33a *Early Medieval Art*. Architecture, sculpture, illuminated manuscripts, and painting from Constantine to the ninth century with emphasis on the early Christian, post-Justinianic, and Carolingian periods. Open to sophomores. Prerequisite, 11. Th F S 11. Mr Harris.
- 33b *Romanesque and Byzantine Art*. Architecture, sculpture, illuminated manuscripts, and painting from the ninth through the twelfth centuries with emphasis on France, Germany, England, and the Byzantine Empire. Open to sophomores. Prerequisite, 11, 33a, or History 11. Th F S 11. Mr Harris.
- [34a *Gothic Art*. Architecture, sculpture, and painting from 1200 to 1460, with emphasis on France, Germany, England, and Burgundy. Open to sophomores. Prerequisite, 11, 33b, or History 11. M T W 12.]
- [35a *Northern Art*. Dutch, Flemish, French, and German art from the fourteenth through the sixteenth century. Given in alternate years. Open to sophomores. Recommended background, 11. Th F S 9. Mr Judson.]
- 36a *Painting, Sculpture, and Architecture in Italy during the Fifteenth Century*. Open to sophomores. Recommended background, 11. M T W 12. Mr Holderbaum.
- 36b *Painting, Sculpture, and Architecture in Italy during the Sixteenth Century*. Open to sophomores. Recommended background, 11. M T 4-5:30. Mrs Cheney.

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- 38b *Dutch and Flemish Art of the Seventeenth Century.* With emphasis upon painting and drawing. Open to sophomores. Recommended background, 11. Th F 4-5:30. Mr Judson.
- 39b *Seventeenth-Century Architecture.* The Baroque in Italy from its initiation around 1600; cross-currents of style in France and England. Open to sophomores. Recommended background, 11. M T W 3. Mr Hitchcock.
- 310a *The Art of the Seventeenth Century in Italy, France, and Spain.* Open to sophomores. Recommended background, 11. Th F 4-5:30. Mr Judson.
- [311a *Art of the Eighteenth Century in Europe.* Painting, architecture, and sculpture on the Continent, with emphasis on developments in France and Italy. Open to sophomores. Recommended background, 11. Th F S 9. Mr Huntington.]
- 313a *The Arts in America.* The colonial period through the years of the expanding republic, with emphasis on the growth of national artistic expressions in painting and architecture. Open to sophomores. Recommended background, 11. Th F S 12. Mr Huntington.
- 313b *The Arts in America.* The Civil War to the present, with emphasis on painting. Open to sophomores. Recommended background, 11. Th F S 12. Mr Huntington.
- [314b *Art in Britain: 1720-1870.* Painting, architecture, landscape architecture, and sculpture from the emergence of a British School in the early eighteenth century through the mid-Victorian period. Open to sophomores. Recommended background, 11. M T W 12. Mr Huntington.]
- 315a *Nineteenth-Century Art* and its backgrounds from Goya and Jacques Louis David through the Impressionist and Post-Impressionist painters. Open to sophomores. Recommended background, 11. M T W 11. Mrs Van der Poel.
- 315b *Contemporary Art.* Twentieth-century movements in various European countries and Mexico. Open to sophomores. Recommended background, 315a or 11. M T W 11. Mrs Van der Poel.
- [316a *Oriental Art.* The art of China and peripheral regions as expressed in painting, sculpture, architecture, porcelain, and the ritual bronzes. The influence of India is studied in connection with the spread of Buddhism along the trade routes of Central Asia. Open to sophomores. M T W 9. Mr MacSherry.]

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- [316b] *Oriental Art.* The art of Japan, especially the painting, sculpture, architecture, and color prints. Particular attention is given to the roles of native tradition and foreign influences in the development of Japanese art. Open to sophomores. M T W 9. Mr MacSherry.]
- [318b] *History of Graphic Arts.* The history of print-making in the Western world, with emphasis on the production of Dürer, Rembrandt, Goya, and Munch. Two lectures (and one discussion meeting in the Museum, where original prints will be examined). M T W 9. Mr Chetham.]
- 327 *Modern Architecture and Its Immediate Background.* Architecture of the last hundred years with particular emphasis on the work of H. H. Richardson, Louis Sullivan, Frank Lloyd Wright, and the European architects of the International Style. Recommended background, 11 or 239. Open to sophomores. M T W 2. Mr Hitchcock.
- 351 *Fifteenth-Century Florentine Painting.* Given in the summer of 1965. Mrs Kennedy.
- 353 *The Classical Style: Origins and Significance.* Given in the summer of 1965. Miss McNally (Mount Holyoke College).
- 40b Members of the Department. Mr Hill (*Director*).
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours of art above Grade I. *Two or three hours.*

SEMINARS

All seminars and units are open to juniors and seniors by permission of the instructor unless otherwise indicated.

- 42a *Studies in Roman Art.* W 7:30. Mr MacDonald.
- 42b *Studies in Greek Sculpture.* M 3-5:30. Mrs Lehmann.
- 43a *Studies in Medieval Art.* T 7:30. Mr Harris.
- [43b *Studies in Gothic Painting.* Th 4-6.]

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- 44a *Studies in Renaissance Art.* M 3-5:30. Mr Holderbaum.
- [45b *Studies in Renaissance Architecture.* W 7:30.]
- 46a *Studies in Northern Painting.* Th 7:30. Mr Judson.
- 46b *Problems in Seventeenth-Century Art in Italy, France and Spain.* Th 7:30. Mr Judson.
- [47b *Studies in English and American Art.* T 7:30. Mr Huntington.]
- [48a *Sources of Modern Architecture in the Nineteenth Century.* M 7:30. Mr Hitchcock.]
- [48b *Drawing in the Nineteenth Century.* M 3-5:30. Mr Chetham.]
- 49a *Studies in Nineteenth-Century European Art.* T 4-6. Mrs Van der Poel.
- 49b *Studies in Twentieth-Century Art.* T 4-6. Mrs Van der Poel.
- 400b *Introduction to Museum Problems.* Open to senior Art majors only. M 3-5. Mr Chetham.
- 417a *Studies in Eighteenth-Century Art.* Th 7:30. Mr Huntington.
- 422b *Studies in Late Antique Art.* W 7:30. Mr MacDonald.
- 425a *Studies in the Eighteenth-Century Architecture of Northern Europe.* For students both in the Art Department and in the major in German Civilization. Emphasis will be on the Rococo of southern Germany, but students will be able to choose related topics. M 7:30. Mr Hitchcock.
- [427a *Architecture since 1890.* M 7:30. Mr Hitchcock.]
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced Studies. *One hour or more.*
- 55a *Art of the Italian Renaissance.* Mr Holderbaum.

For further information about graduate work in art, application should be made to the Chairman of the Department. Adviser of graduate study: Mr Hitchcock.

B. Studio Courses

A fee is charged for materials in 13, 21b, 312a and b, 335a and b, 336a and b, 415a and b. The Department reserves the right to retain selected examples of work done in studio courses.

- 13 *Introduction to the Theory and Practice of Art.* Appreciation and understanding of the basic principles underlying the structure of the arts through studio

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practice in handling the elements of color, volume, movement, space, line, and texture. Lectures, demonstrations, films, discussion, and workshop experiments. M 9; eight studio hours of which four must be M T 10-12; M T 2-4; Th F 10-12; Th F 2-4. Mr Hill (*Director*).

- 21b *Materials and Techniques*. Introduction to the materials and techniques of drawing, graphics, painting, sculpture. Not open to students taking other studio courses. Lectures, demonstrations, discussion, and workshop experiments. Nine studio hours of which six must be M T W 10-12. By permission of the instructor. Mr Jules.
- 210a *Painting*. Exploration of color and pictorial composition; with emphasis on the techniques of painting in water-color, gouache, casein. Prerequisite, 13 and permission of the instructor. Nine studio hours of which six must be M T 2-5. Mr Cohen.
- 210b *Painting*. Introduction to painting in oil; with further studies in pictorial composition and color. Open to students who have taken *Drawing and Pictorial Organization* (formerly 210b). Prerequisite, 13, 210a, or permission of the instructor. Nine studio hours of which six must be M T 2-5. Mr Cohen.
- 213a *Drawing*. A study of the basic elements of drawing. Prerequisite, 13 and permission of the instructor. Nine studio hours of which six must be Th F 2-5. Mr Hill.
- 214b *Figure Drawing*. The study of the human figure. Prerequisite, 213a, or permission of the instructor. Th F 2-5. Mr Hill.
- 239 *Introduction to Architecture, City Planning, and Landscape*. Preliminary instruction in drafting, perspective, and lettering, followed by planning and design problems. Th F 2-5. Mr Garland.
- 312a *Sculpture*. Methods of direct carving and plaster techniques. Open to sophomores. Prerequisite, 13, or permission of the instructor. Recommended background, 213a or 213b. Nine studio hours of which six must be Th F 2-5. Mr Offner.
- 312b *Sculpture*. Work in direct carving. Open to sophomores. Prerequisite, 312a, or permission of the instructor. Nine studio hours of which six must be Th F 2-5.
- 331a *Problems in Pictorial Organization*. Prerequisite, 210b or 335a, or permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Jules.

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- [331b *Advanced Painting*. Individual expression in painting, using various media. Prerequisite, 331a and permission of the instructor. M T 2-5.]
- 335a *Design Workshop*. Two- and three-dimensional experimental work in form, color, and structure. Open to sophomores. Prerequisite, 13, or permission of the instructor. Nine studio hours of which six must be Th F S 9-11. Mr Offner.
- 335b *Design Workshop*. Continuation of 335a with emphasis on three-dimensional work. Open to sophomores. Prerequisite, 335a, or permission of the instructor. Nine studio hours of which six must be Th F S 9-11. Mr Byng.
- 336a *Graphic Arts*. Methods of print-making. Open to sophomores. Prerequisite, 13. Nine hours of which six must be M T W 10-12. Mr Baskin.
- 336b *Graphic Arts*. Continuation of 336a. Open to sophomores. Prerequisite, 336a, or permission of the instructor. Nine hours of which six must be M T W 10-12. Mr Baskin.
- 339 *Architecture*. Further problems in planning and design together with instruction in elementary construction. Prerequisite, 239. Th F 11-1. Mr Garland.
- 341 *Landscape Architecture*. Advanced problems in landscape design. Prerequisite, 239. Th F 11-1. Mr Garland.
- 41, 41a, 41b *Special Studies*. By permission of the Department for senior majors who have had twelve semester hours above Grade I in art. *Two or three hours*.
- 415a *Art Education*. Theory and practice of art in the elementary and secondary school. For juniors and seniors by permission of the instructor. Recommended background 13. (Students who wish this course to be credited as a course in Education should see the course as listed in the offerings of the Department of Education and Child Study.) T 7:30. Mrs Jules.
- 415b *Advanced Art Education*. Continuation of 415a. Prerequisite, 415a. (Students who wish this course to be credited as a course in Education should see the course as listed in the offerings of the Department of Education and Child Study.) T 7:30. Mrs Jules.
- 510 *Architecture*.
- 512 *Landscape Architecture*.
- 513a, 513b *Painting, Sculpture, Design, or Graphic Arts*. Members of the Department.

ART

THE MAJOR

Advisers: Mr Hitchcock, Mrs Van der Poel, Mr Cohen, Mr Jules, Mr Holderbaum, Mr Judson, Mr Garland, Mr Huntington, Mr Offner, Mr Hill.

Based on 11 or 13. Exemption from 11 will be granted to students who pass an examination administered by the Department at the beginning of the year.

Essential courses: 40b and eighteen semester hours in art of which at least three must be in Section B (Studio). If the major is based on 13, 11 must also be taken, as well as two courses of at least three hours each from two of the four areas Alpha through Delta as specified below. If the major is based on 11, the program must include four courses of at least three hours each from four of the five areas Alpha through Epsilon:

Alpha (Ancient): 31a; 31b; 32a; 32b; 42a; 42b; 421b; 422b.

Beta (Medieval): 33a; 33b; 34a; 43a; 43b.

Gamma (Renaissance): 35a; 36a; 36b; 37a; 44a; 44b; 45b; 46a.

Delta (Baroque and earlier 18th century): 38b; 39b; 310a; 310b; 311a; 313a; 46a; 46b; 425a.

Epsilon (the last 200 years): 313a; 313b; 314b; 315a; 315b; 327; 329a; 329b; 47a; 48a; 49a; 49b; 427a.

Majors are strongly urged to take at least one seminar.

HONORS

Directors: Mr Harris.

Prerequisite: 11.

Program: an arrangement, approved by the director, of courses and seminars (or special studies) in art and related fields in preparation for general examinations.

In the senior year the candidate will present a long paper for the first semester and spend three hours in a review unit during the second term.

Examinations: one general examination; one based on specific fields; one testing the candidate's ability to analyze and interpret original works of art.

UNIT

SECOND SEMESTER

Problems in the History of Art. Required of senior honors students. Open to a limited number of other qualified seniors. T 7:30. Mr Harris, Mr Huntington.

ASTRONOMY

ASSISTANT PROFESSOR:

FRANCIS MICHAEL STIENON, PH.D.

LECTURERS:

STEPHEN MILLER ADLER, M.S. (Instructor, Mount Holyoke College)

ROBERT L. GLUCKSTERN, PH.D. (Professor, University of Massachusetts), *Chairman*

ROBERT HARRY KOCH, PH.D. (Associate Professor, University of Massachusetts)

ALBERT PAUL LINNELL, PH.D. (Professor, Amherst College)

STANLEY SOBIESKI, PH.D. (Assistant Professor, University of Massachusetts)

The astronomy department is a joint four-college department. Courses designated FC (four college) are taught jointly with Amherst College, Mount Holyoke College, and the University of Massachusetts. The astronomical resources of all four institutions are available for advanced student use. In special cases, student research and thesis materials may be obtained from major observatories.

Astronomy 11 may be elected to fulfill the distribution requirement in Division III.

A student interested in an astronomy major should consult with the Department as early in her college career as possible. The prospective major is encouraged to begin her study of physics and mathematics as soon as possible.

Grade III courses are open to qualified sophomores.

- 11 *Introduction to Astronomy.* The motions and physical nature of the moon, the planets, comets, and meteors. Introduction to elementary astronomical spectroscopy and the laws of radiation. Hypotheses of the origin of the solar system. The structure of the sun. Study of stars, stellar systems, and recent theories of stellar and galactic evolution. Opportunity for laboratory work, astronomical observation, and the use of the Amherst College planetarium. Three units of secondary school mathematics required. Lectures and discussion. Th F S 9; laboratory-observation periods by arrangement. Mr Stienon.
- 21a *Topics in Astronomy.* Physics of the solar system. Physical study of planets, satellites, comets, asteroids, meteors; solar-terrestrial relationships, celestial mechanics, age and origin of the solar system. Background reading of original papers. Prerequisites, Physics 11 or Physics 15 or Physical Science 193 or Astronomy 11, a grade I course in Mathematics, or permission of the instructor. Lectures and discussion. Th F S 11. Mr Stienon.

ASTRONOMY

- 21b *Topics in Astronomy, continued.* Dynamics and structure of our galaxy. Stellar spectra, colors and magnitudes; the solar neighborhood; stellar populations; interstellar material. Background reading of original papers. Prerequisites, Physics 11 or Physics 15 or Physical Science 193 or Astronomy 11, a Grade I course in Mathematics, or permission of the instructor. Th F S 11. Mr Stienon.
- FC 37a *Astronomical Observation, Reduction, and Analysis (I).* Fundamental astronomical catalogues and their uses; theory of the transit telescope; visual observation with the equatorial telescope and the transit; photography with the equatorial telescope; photographic photometry. Three hours of classroom work per week of which some will be observing sessions to be arranged. Prerequisite, Astronomy 11, or Astronomy 21a and 21b. Required of astronomy majors. T Th 1:30-3, Amherst College. *Three hours.* Members of the Department.
- FC 38b *Astronomical Observation, Reduction, and Analysis (II).* Astronomical spectroscopy including line identification, plate calibration and radial velocity determination; photography of objective grating spectra; photoelectric photometry including determination of atmospheric extinction and extrapolation to stellar color indices and magnitudes outside the atmosphere; photoelectric light curves of variable stars. Three hours of classroom work per week of which some will be observing sessions to be arranged. Prerequisite, Astronomy 11. Required of astronomy majors. T Th 1:30-3, Amherst College. *Three hours.* Members of the Department.
- FC 43a *Mathematical Astronomy (I).* Basic topics in astronomy and astrophysics. Astronomical topics in atomic spectroscopy. Physics of radiation and radiative transfer. Basic considerations in the treatment of stellar interiors and atmospheres. Prerequisite, Astronomy 11, or Astronomy 21a and 21b, Physics 32a. M F 1:30-3:30, Amherst College. *Four hours.* Members of the Department.
- FC 44b *Mathematical Astronomy (II).* Basic topics in astronomy. The restricted three body problem; advanced concepts in mechanics applicable to astronomical problems; stellar motions and stellar statistics. Prerequisite, 43a, or permission of the department. M F 1:30-3:30, Amherst College. *Four hours.* Members of the Department.
- 40b Synoptic Course designed to correlate the work in the major field.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in astronomy. *Two or three hours.*

ASTRONOMY

50, 50a, 50b Research and Thesis. An individual research project approved by the department. Prerequisite, consent of the department. *Three or six hours.*

THE MAJOR

Adviser: Mr Stienon.

Based on 11, or 21a and 21b.

Essential courses: FC 37a, FC 38b (or other combinations approved by the department); Physics 11 or 15, Mathematics 21 or 22a and b, or equivalent, and at least nine additional hours in Astronomy and six additional hours in related sciences or mathematics.

HONORS

Director: Mr Stienon or other member of the Joint Department.

Prerequisites: 11, or 21a and 21b; Physics 11 or 15, Mathematics 21 or 22a and b, or equivalent.

Essential courses: FC 37a, FC 38b (or other combinations approved by the department), and at least six additional hours in physics and six additional hours in mathematics.

During her senior year, the honors candidate will prepare a thesis on a topic approved by the department, on which there will be an oral examination. In addition, there will be two examinations, one in the general area of fundamental astronomy, the other in galactic and extragalactic studies.

BACTERIOLOGY AND PUBLIC HEALTH

PROFESSORS:

*ELINOR VAN DORN SMITH, PH.D.

ELIZABETH DOROTHY ROBINTON, PH.D., *Chairman*

ASSISTANT PROFESSOR:

ELIZABETH ANN TYRRELL, PH.D.

TEACHING FELLOW:

BARBARA ANN SPENGLER, B.S.

Students planning to major in Bacteriology are advised to take Chemistry 11 or 12 and Bacteriology 22 before the junior year.

BACTERIOLOGY

- 22 *General Bacteriology.* Introduction to bacterial classification, cytology, physiology, and genetics, followed by work on control of bacterial growth, the study of antibiotics, and the relation of bacteria to public health problems. Prerequisite, Chemistry 11 or 12. Two lectures and two two-hour laboratory periods. Lec. M T 10; lab. M W 2. Miss Tyrrell.
- [27a *The Microbial World.* A survey of microbial life with emphasis on the characteristics of bacteria as the prototype of free living cells. Lectures and demonstrations. M T W 12. Miss Smith.]
- 27b *Microorganisms of Importance to Man.* A study of microbial activities in relation to the life of the individual and the community. Lectures and demonstrations. M T W 12. Miss Smith.
- 34 *Pathogenic Bacteriology and Immunology.* An introduction to immunological theory with applications of bacteriological and serological methods for the identification of pathogenic bacteria. Prerequisite, 22. One lecture and five hours of laboratory. Lec. Th 2; lab. Th 3-5, F 2-5. Miss Robinton, first semester; Miss Smith, second semester.
- 40b *Recent Advances in Microbiology and Immunology.* Readings and discussion. Members of the Department.
- 41, 41a, 41b Special Studies in bacteriology and serology. By permission of the Department for senior majors who have had twelve semester hours in essential courses in the major above Grade I. *Two, three or six hours.*
- 42b *Pathogenic Fungi.* Systematic studies of the fungi of medical importance to man. Prerequisite, 22 and first semester of 34. Two lectures and two two-hour laboratory periods. Alternates with 46b. Miss Robinton.

BACTERIOLOGY AND PUBLIC HEALTH

- 43a *Seminar in Backgrounds of Microbiology.* A survey of the discoveries and developments in scientific thinking which culminated in the science of bacteriology. Prerequisite, 22. Miss Robinton.
- 44b *Journal Seminar.* A study of source materials including current periodicals in bacteriology and immunology. By permission of the instructor for students who have passed or are taking 34. One hour. Miss Smith.
- [46b *Introduction to Virology.* An introduction to the current concepts of virus multiplication and the resultant effects on host cells; the techniques of virus propagation; and the methods of titration and neutralization. Prerequisites, 22 and the first semester of 34. Two lectures and two two-hour laboratory periods. Alternates with 42b. Miss Tyrrell.]
- 50, 50a, 50b Research and Thesis. Three or six hours.
- 51, 51a, 51b Advanced Studies. One hour or more.
- 52, 52a, 52b *Problems in Bacteriology and Virology.* Two hours or more. Miss Tyrrell.
- [55, 55a] 55b *Problems in Pathogenic Bacteriology and Immunology.* Two hours or more. Miss Smith.
- 56, 56a, 56b *Problems in Pathogenic Fungi.* Two hours or more. Miss Robinton.

PUBLIC HEALTH

- 21b *Environmental Health.* A study of the public health problems created by man in his environment, including a survey of the control measures applied to housing and contamination of the air, water, and food supply. M T W 9. Miss Robinton.
- 32a *Concepts of Public Health.* A study of the development of the modern public health movement from its inception with emphasis placed upon the period from the sanitary awakening of the nineteenth century to the present day. Basic ideas and activities of official and non-official organizations will be evaluated. M 4-6 and one hour to be arranged. Miss Robinton.
- 412b *Health Education* (seminar). Problems in the dissemination of accurate health information to the individual and the community. Miss Robinton.

Adviser of graduate study: Miss Tyrrell.

INTERDEPARTMENTAL MAJOR IN BACTERIOLOGY

Adviser to the major: Miss Robinton.

Essential Courses: Chemistry 11 or 12, 21; Bacteriology 22, 34, 40b; Zoology 12 or 32b; a college course in physics or mathematics.

BOTANY

Optional Courses: courses in chemistry, bacteriology, botany, physics, zoology, or mathematics approved by the adviser.

HONORS

Director: Miss Robinton.

Prerequisites, normally taken before junior year: Bacteriology 22; Chemistry 11 or 12; a college course in physics or mathematics.

Program:

Requirements: Bacteriology 34, 43a, 44b; Chemistry 21; Zoology 12 or 32b; three hours throughout senior year on an individual paper, and review.

Optional Courses: courses in chemistry, bacteriology, botany, physics, zoology, or mathematics approved by the director.

Examinations: one in bacteriology, one in a related science, one in a specific area of microbiology.

BOTANY

PROFESSOR:	KENNETH E. WRIGHT, PH.D.
ASSISTANT PROFESSORS:	DAVID ANDREW HASKELL, PH.D. CARL JOHN BURK, PH.D., <i>Chairman</i>
HORTICULTURIST:	WILLIAM I. P. CAMPBELL
TEACHING FELLOWS:	MARY ROSE CASTELLI, A.M. HAROLD ROYAL HINDS, B.S.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Botany 11, Biological Science 191a plus three hours in biological science, and Biological Science 195.

Unless otherwise stated the prerequisite for all courses above Grade I is 11, Biological Science 195, or permission of the instructor.

Sophomores may elect Grade III courses with the permission of the instructor.

A. Biological Science

- 191a *Cell Biology.* The fundamental properties of living cells are studied by means of representative examples from the plant, animal, and microbial kingdoms. Similarities and differences in structure and function among these cell types are examined both in lectures and laboratory work. Emphasis is placed on the experimental approach to problems of current interest in biology. Open

BOTANY

to a limited number of freshmen with strong high school chemistry and biology backgrounds. Three lectures, one three-hour laboratory per week. Lec. M T W 11; lab. T 2-5. Miss Tyrrell, Miss Merrill, Mr Shapiro.

- [195 *The Living World*. An appreciation of life as exhibited in the form, function, inheritance, and evolution of living organisms, with special emphasis on the relationship of man to the equilibrium of nature. This course is not open to students who have had a laboratory course in biology. Lecture, three hours; laboratory, two hours. (This course is designed primarily for students who, at the time of entering, do not intend to major in science.) Lec. M T W 9; lab. Th 11-1, 2-4; F 9-11, 11-1.]
- 296a *Genetics*. A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite, a Grade I course in zoology, botany, or biological science. Open to students majoring in sociology or education by permission of the instructor. Two lectures, two two-hour laboratory periods. Th F 2-5. Mr Shapiro.

B. Botany

- 11 *General Botany*. A study of the life processes and structure of seed plants with emphasis upon their relationship to the needs of man. A survey of representative types of other green and nongreen plants; reproduction, heredity, evolution. Two lectures and two two-hour laboratory periods. Lec. Th F 12; lab. M T 9, 11, 2; Th F 9, 2. Mr Wright (*Director*), Mr Haskell, Mr Burk.
- 21a *Evolution and the Plant Kingdom*. A study of evolutionary trends and processes from the origin of life through the development of the present-day flora. Three hours of lecture and discussion. To be arranged. Mr Burk.
- 21b *Conservation of Natural Resources*. A consideration of the importance of soil, water, and the vegetative covering of the earth to human society. Three hours of lecture and discussion. To be arranged. Mr Burk.
- 27 *Horticulture*. Theory and practice of plant cultivation and improvement, with a study of the species commonly cultivated and the preparation of gardens. Two lectures and two two-hour laboratory periods. Th F 10-1. Mr Campbell.
- [31a *Comparative Morphology of the Non-Vascular Plants*. Studies in the structure, reproduction, phylogeny, classification, and significance of selected algae, fungi, liverworts, and mosses. Offered in alternate years. Two lectures and two hours of laboratory. To be arranged. Mr Haskell.]

BOTANY

- [31b *Comparative Morphology of the Vascular Plants*. Studies in the structure, reproduction, phylogeny, classification, and significance of living and extinct ferns, fern allies, gymnosperms, and angiosperms. Offered in alternate years. Two lectures and two hours of laboratory. To be arranged. Mr Haskell.]
- [32a *Microtechnique*. Methods used in the preparation of various plant materials for microscopic study. Offered in alternate years. Six hours of laboratory. To be arranged. Mr Haskell.]
- 32b *Morphogenesis*. An integrative study of the morphological, physiological, and genetic aspects of plant growth and form. Offered in alternate years. Three hours of lecture and discussion. To be arranged. Mr Haskell.
- 35 *Plant Physiology*. A study of plant processes and functions. Offered in alternate years. Two lectures and two two-hour laboratory periods. M T W 11-1. Mr Wright.
- [36a *Plant Ecology*. A study of plant communities, particularly as exemplified by local vegetation. Field trips in the fall, including one of two days. Two hours of lecture and four hours of laboratory or field work. Offered in alternate years. Th F 2-5. Mr Burk.]
- [36b *Plant Taxonomy*. A study of ferns and flowering plants with special emphasis on the Northampton region. Principles of classification. Field trips in the spring. One lecture and five hours of laboratory or field work. Offered in alternate years. Th F 2-5. Mr Burk.]
- 40a A research project correlating material from various fields of botany, leading to a paper to be completed in the second semester. Members of the Department.
- 41, 41a, 41b Special Studies: work in morphology, anatomy, physiology, taxonomy, ecology. By permission of the Department for senior majors who have had twelve semester hours in botany above Grade I. *Two or three hours*. Members of the Department.
- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 51, 51a, 51b Advanced studies in the fields of morphology, anatomy, physiology, taxonomy, ecology, arranged in consultation with the adviser of graduate study. *One hour or more*. Members of the Department.

BOTANY

52a, 52b Selected problems in a specific field of botany assigned for investigation, experimental work, and discussion. *One hour or more.* Members of the Department.

56a, 56b Seminar on recent advances and current problems in botany. Selected topics for reading and individual reports. *One hour.* Members of the Department.

Adviser of graduate study: Mr Haskell.

THE MAJOR

Adviser: Mr Burk.

Based on 11 or Biological Science 195.

Essential Courses: eighteen hours in botany of which at least twelve must be above Grade II; 40a and a paper to be completed in the second semester.

Optional Courses: other courses in botany above Grade I; courses in bacteriology, biological science, chemistry, geology, physics, and zoology.

HONORS

Director: Mr Wright.

Program:

Requirements: 31b, 35, 36b; six hours of Grade IV or V in botany, involving a problem and a paper; three hours of directed reading and review.

Optional: courses approved by the director.

Examinations: a written examination covering major fields of botany; a written examination in the special field of the candidate; an oral examination.

CHEMISTRY

PROFESSORS:	KENNETH WAYNE SHERK, PH.D. **MILTON DAVID SOFFER, PH.D. GEORGE STONE DURHAM, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	GEORGE MORRISON FLECK, PH.D. KENNETH PAUL HELLMAN, PH.D.
INSTRUCTOR:	GÜNİZ EMINE GÜNAY, A.M.
TEACHING FELLOWS:	LÂLE AKA, A.M. JUDITH BARRETT TREDWELL, A.B. SUSAN ADAIR, A.B. DONNA GABOURY JARA, A.B. KATHLEEN THERESA TINSLEY, B.S.
RESEARCH FELLOW:	SEVGI BÖKE, A.M.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Chemistry 11, 12, and Physical Science 193.

Students who are planning to major in chemistry should elect 12 (or 11) in freshman year. They are advised to complete Mathematics 12, 13 or 21 the first year, and Physics 15 the second year.

- 11 *General Chemistry.* An introductory course with emphasis on the relationship of the properties of matter to atomic and molecular structure. The development of ideas and principles is stressed. Two lectures, one discussion, and one three-hour laboratory period. Lec. and dis. M T W 9; lab. M Th 2-5. Mr Hellman.
- 12 *Principles of Chemistry.* An intermediate course centered in the first semester on the study of basic concepts and their relations to the behavior of the more common elements and their compounds, and in the second on the principles of equilibrium and their applications. The emphasis in the laboratory is placed in the first semester on quantitative analysis and in the second semester on qualitative analysis. This course is designed for students who are especially interested in chemistry as a basis for further study in science and who offered a unit of chemistry for entrance. Two lectures, one discussion, and one three-hour laboratory. Lec. Th F S 10; lab. M T F 2-5. Mr Sherk, Mr Fleck.
- 12b The second semester of 12 for majors who have taken 11.
- 21 *Organic Chemistry.* A beginning course in the theory and practice of organic chemistry. Prerequisite, 11 or 12. Two lectures, one discussion, and one three-hour laboratory period. Lec. and dis. M T W 12; lab. M T Th 2-5. Mr Soffer, Miss Günay.

CHEMISTRY

- 31b *Quantitative Chemistry*. A quantitative study of equilibria in solution, especially as applied to volumetric and gravimetric methods of chemical analysis. Corequisite, 32. Lecture, discussion, and six laboratory hours. Lec. and dis. Th F 12; lab. Th F 2-5. Mr Fleck.
- 32 *Physical Chemistry*. Theoretical chemistry, including thermodynamics, kinetics, electrochemistry, and introductory quantum theory. Prerequisites, six hours in mathematics and in physics, or by permission of the instructor. Two lectures, discussion, and one three-hour laboratory period. Lec. and dis. M T W 10; lab. M T 2-5. Mr Durham.
- 33a *Organic Qualitative Analysis*. The separation, characterization, and identification of organic substances; theory and practice. Prerequisite, 21. Lecture, discussion, and six laboratory hours. Lec. hour to be arranged; lab. Th F 2-5. Miss Günay.
- 40b Integrating Paper. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in chemistry. *Two or three hours*.
- 42a *Biochemistry*. The chemistry of biologically active substances. Prerequisite, 21, 32; concurrent registration in 32 by permission of the instructor. Two lectures, discussion, and one three-hour laboratory. Lec. and dis. Th F S 9; lab. M 2-5. Mr Hellman.
- 44b *Advanced Inorganic Chemistry*. Selected topics with emphasis on structural considerations. Prerequisites, 21, 32. Lec. Th F 11 and one hour to be arranged. Mr Fleck.
- 45a *Molecular Structure*. Current theories of molecular structure, and physical methods used in its investigation. Emphasis on the methods of group theory and of quantum mechanics. Electron, neutron, and x-ray diffraction; microwave, infra-red, Raman, and ultra-violet spectroscopy. Prerequisites, 21, 32. Lec. M T W 9. Mr Fleck.
- 46a *Physical Organic Chemistry*. The relationship of molecular structure to chemical properties, with emphasis on organic reaction mechanisms. Prerequisites, 21, 32, or by permission of the instructor. Lec. Th F 10 and one hour to be arranged. Miss Günay.

CHEMISTRY

- [47b *Organic Techniques*. A study of laboratory procedures used in organic preparations and research. Prerequisites, 21, 32. One lecture and six hours of laboratory.]

Graduate Courses

These courses are open to seniors by permission of the Department. It is suggested that a student majoring in chemistry take at least one graduate course.

50, 50a, 50b Research and Thesis. *Three or six hours.*

51a, 51b Special Studies. (1) Advanced Organic Preparations; (2) Contemporary Literature; (3) Heterocyclic Natural Products; (4) Theory of Solutions; (5) Organic Reaction Mechanisms. *One hour or more.*

55a *Chemical Kinetics*. Relationship between rates and mechanisms of chemical reactions, with emphasis on homogeneous reactions in solution. Prerequisite, 32 or its equivalent. Mr Fleck.

55b *Statistical Thermodynamics*. Development of statistical mechanics according to the method of Gibbs, with emphasis on applications to chemical systems, and on relations between spectra and the thermodynamic functions. Introduction to thermodynamics of irreversible processes, and to non-equilibrium thermodynamics. Prerequisite, 32 or its equivalent. Mr Fleck.

57b *Selected Topics in Biochemistry*. A detailed treatment, from the chemical standpoint, of selected topics of current biochemical interest, such as nucleic acids and chemical genetics, and aspects of physical biochemistry and plant biochemistry. Prerequisite, 32, 42a, and a Grade I course in a biological science; or by permission of the instructor. Mr Hellman.

[58b *Organic Reactions*. An integrative review of organic reactions, with the discussion of selected theoretical aspects. Prerequisite, 46a or permission of the instructor.]

[59b *Carbocyclic Natural Products*. The chemistry of terpenic and steroid substances, with particular emphasis upon methods of structural investigation and synthesis. Mr Soffer.]

Adviser of graduate study: Mr Soffer (first semester); Mr Fleck (second semester).

CHEMISTRY

THE MAJOR

Advisers: Members of the Department.

Based on 21. Students who have taken 11 must also take 12b before their senior year.

Essential Courses: 31b, 32, 40b, and six additional semester hours in chemistry; six semester hours in mathematics and in physics. In the senior year at least twelve semester hours must be taken in the Department.

Recommended Courses: Mathematics 21 or 22a, German 11, Chemistry 33a, 44b, 45a.

Optional Courses: courses in chemistry above Grade II; other courses in mathematics and science which meet with the approval of the adviser.

The program recommended above meets the requirements of the American Chemical Society for eligibility for professional standing.

HONORS

Director: Mr Durham.

Prerequisite: 21. Students who have taken 11 must also take 12b before their senior year.

Program:

Essential Courses: 31b, 32, the Honors Unit, and six additional semester hours in chemistry; six semester hours in physics and in mathematics. Mathematics 21 or 22a, German 11, and Chemistry 33a, 44b and 45a are recommended. The Honors Unit consists of three semester hours each semester of the senior year to be spent on an individual investigation.

Examinations: one in inorganic and analytical chemistry; one in organic chemistry and related subjects; one in physical chemistry.

CLASSICAL LANGUAGES & LITERATURES

PROFESSORS:	GEORGE EDWARD DIMOCK, JR., PH.D., <i>Chairman</i> CHARLES HENDERSON, JR., PH.D.
ASSISTANT PROFESSOR:	†ELIZABETH CLAIRE MOFFAT, PH.D.
INSTRUCTORS:	†STEPHEN SCHNEIDERMAN, A.M. DEBORAH HOBSON SAMUEL, PH.D.
LECTURERS:	KATHERINE GEE HORNBEAK, PH.D. †ROLFE HUMPHRIES, B.A., M.A. (HON.)

The distribution requirement in Group A may be fulfilled by six hours of ancient literature in the original, or six hours of ancient literature in translation. Greek 12a and b or Latin 14a and b will fulfill both the foreign language requirement and the distribution requirement in Group A. The following are primarily language courses, and do not count for distribution: Greek 11, 16, Latin 11, 26.

Students planning to major in classics or in ancient studies are advised to take relevant courses in other departments, such as art, history, philosophy, and modern languages.

A major in Greek or in Latin may be arranged on consultation with the chairman.

GREEK

The prerequisite for courses of Grade III is 22b or 24b, or permission of the instructor.

- 11 *Elementary Course.* Introduction to the language; selections from Greek literature. Five class hours. *Three hours each semester.* M T W Th F 9. Miss Hornbeak.
- 12a *Plato: Selected Dialogues.* Prerequisite, two units in Greek or 11. Th F S 12. Mr Dimock. (L)
- 12b *Homer.* Prerequisite, 12a or permission of the instructor. Th F S 12. Mr Dimock. (L)
- [16 *Prose Composition.* Prerequisite, two units in Greek or 11. *One hour each semester.*]
- 21a *The Drama: Sophocles and Euripides.* Prerequisite, 12b or three units in Greek. M T W 11. Mr Dimock. (L)
- 22b *Homer, Advanced Course.* Prerequisite, 21a or its equivalent. M T W 10. Mr Dimock. (L)
- [23a *The Drama: Aeschylus and Aristophanes.* Prerequisite, three units in Greek, or 12b or its equivalent. M T W 10. (L)]

CLASSICAL LANGUAGES & LITERATURES

[24b *Herodotus*. Prerequisite, 23a. Th F S 9. (L)]

[31a *Greek Historians*.]

[32b *Drama, Advanced Course*. M T W 10.]

33a *Selections from Lyric and Pastoral Poets*. Mr Dimock.

34b *Plato, Advanced Course*. Mr Dimock.

41, 41a, 41b Special Studies. By permission of the Department for majors who have had twelve semester hours above Grade I in the Department. *Two or three hours*.

[Religion 25b *Greek New Testament*.]

50, 50a, 50b Research and Thesis. *Three or six hours*.

51a, 51b Advanced studies in Greek literature arranged on consultation. *One hour or more*.

Adviser of graduate study: Mr Henderson.

LATIN

The prerequisite for courses of Grade II is 14b, or permission of the instructor; for courses of Grade III, 22b or 24b, or permission of the instructor.

11 *Elementary Course*. Introduction to the language; selections from Latin literature. Four class hours and Language Laboratory. *Three hours each semester*. M T W Th 12. Mrs Samuel.

12a *Poetry of Ovid and Related Prose*. Prerequisite, two units in Latin or 11. Th F S 9. Mr Henderson. (L)

12b *Vergil, Aeneid*. Prerequisite, 12a or permission of the instructor. Th F S 9. Mr Henderson. (L)

14a *Poetry of Catullus and Related Prose*. Prerequisite, three units in Latin. M T W 12. Mr Humphries. (L)

14b *Vergil, Eclogues; Horace, Odes and Epodes*. Prerequisite, 14a or permission of the instructor. Th F S 12. Mr Henderson. (L)

[21a *Medieval Latin*.]

[22b *Roman Elegiac Poetry*. Th F S 12.]

CLASSICAL LANGUAGES & LITERATURES

- 23a *Roman Historians.* Th F S 10. Mr Henderson.
- 24b *Roman Comedy.* Th F S 10. Mr Henderson.
- 26 *Prose Composition.* Prerequisite, 14b or permission of the instructor. *One hour each semester.* Mrs Samuel.
- [33a *Vergil, Advanced Course.* Th F S 12.]
- [34b *Roman Satire.* Th F S 11.]
- 35b *Cicero, Advanced Course.* Hours to be arranged. Mr Henderson.
- 36a *Lucretius.* Mrs Samuel.
- 41, 41a, 41b Special Studies. By permission of the Department for majors who have had twelve semester hours above Grade I in the Department. *Two or three hours.*
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced studies in Latin literature arranged on consultation. *One hour or more.*
- Adviser of graduate study: Mr Henderson.

CLASSICS

- 18a *Greek and Roman Epic and Drama in Translation*, including such works as Homer's *Odyssey*, Aeschylus' *Oresteia*, Sophocles' *Antigone* and *Electra*, Euripides' *Alcestis* and *Medea*, Vergil's *Aeneid*. Th F S 11. Mr Dimock.
- 18b *Greek and Roman Prose and Shorter Verse Forms in Translation*, including such works as Herodotus' *Histories*, Plato's *Republic*, Greek lyrics, odes of Pindar, Livy's *Ab Urbe Condita*, poems of Catullus, Horace and Ovid. M T W 11. Mrs Samuel.
- 27a *Classical Romance, Pastoral, and Satire*, including such works as Theocritus' *Idylls*, Vergil's *Eclogues*, Petronius' *Satyricon*, selected *Lives* of Plutarch, Longus' *Daphnis and Chloe*, and Apuleius' *Golden Ass*. Open to freshmen exempted from English 11. Th F S 12. Mr Henderson.

CLASSICAL LANGUAGES & LITERATURES

29b *Ancient Drama in Translation*, including a large selection from those Greek tragedies not usually read in school and college. Open to freshmen exempted from English 11. M T W 12.

40b Review Unit. Required of all majors in the Department.

THE MAJOR IN CLASSICS

Adviser: Mr Dimock.

Based on Greek 11 and Latin 14a and b (or, by permission of the adviser, Latin 12b).

Essential Courses: Greek 16, Latin 26, Classics 40b, eighteen semester hours chosen from Greek and Latin courses of Grade II or above.

Optional Courses: other courses in Greek; courses in Latin above Grade I; allied courses in other departments.

A major in Greek or in Latin may be arranged on consultation with the chairman.

THE MAJOR IN ANCIENT STUDIES

Adviser: Mr Cohn-Haft. An honors program can be arranged by consultation with the adviser.

Based on six hours of Greek or Latin, and History 12.

Essential Courses: Twelve additional hours in the language that serves as the basis for the major; History 33a and 33b, Art 31a and 31b, Ancient Studies 40b; twelve hours from among the following: History 23b, Philosophy 24 or Government 326, Religion 39a, Religion 39b, Sociology and Anthropology 310b, or 23b.

Recommended courses: Art 32a, 32b, 42a, 42b, 422b, History 314b, 43b, Philosophy 36a, Religion 21, 25b, 27b, 28a, 29, 31a, Sociology and Anthropology 314a.

HONORS

Director: Mr Dimock.

An honors program in Greek or Latin may also be arranged.

Program: to be arranged with the director.

Examinations: one will test the candidate's ability to read Greek and Latin; one, her general knowledge of Greek and Latin literature and classical culture; and one, her mastery of her field of concentration.

ECONOMICS

PROFESSORS:	DOROTHY CAROLIN BACON, PH.D. †GEORGE FISK MAIR, PH.D., <i>Chairman</i> KENNETH HALL MCCARTNEY, PH.D., <i>Acting Chairman for 1965-66</i>
ASSOCIATE PROFESSOR:	PETER E. SLOANE, PH.D.
ASSISTANT PROFESSORS:	ROBERT TABOR AVERITT, PH.D. PETER MYLES COSTELLO, M.A. ROBERT DEAN BRITT, M.A. DAVID ALLAN OLSON, A.M.
INSTRUCTORS:	†LUCY AUGUSTINE MALLAN, M.A. GERALD LOUIS FOX, M.A.

Economics 21 may be taken to fulfill the distribution requirement in Group E.

Freshmen who are interested in economics are encouraged to apply for permission to enter 21.

Freshmen who are considering a major in the Department and who hope to spend their junior year abroad are strongly advised to take 21 in the freshman year and to take additional courses in economics in their sophomore year.

A. General Courses

- 21 *The Structure and Functioning of Modern Economies.* An introduction to economic principles through the study of economic institutions and problems, including such topics as the production and distribution of goods, the value of money, the level of employment and income, and international trade. Open to freshmen by permission. Lec. W 12. Sect. M T 9, 12, 2; Th F 9, 10, 11. Mr Sloane (*Director*), and members of the Department.
- 21b The second semester of 21 for students who have passed Social Science 192.
- [22b *Basic Economics.* A study of the economic factors that determine how and to what extent the resources and manpower of the country are used to produce goods and services. Open only to students who have passed Social Science 192.]
- [24a *Principles of Accounting.* The theory of debits and credits. The organization and use of accounting records, the construction and interpretation of balance sheets and statements of revenue and expense, and selected special topics.]
- 28a *Basic Statistics.* An introduction to statistical reasoning and its application in the social sciences. Averages, dispersion, association, elementary sampling, and statistical inference. Lec. M T 12; lab. T 3-5, Th 3-5. Mr Fox.

ECONOMICS

- 29 *Development of Western Economic Society.* Introduction to the study of economic development in Europe and the United States, eighteenth century to the present. Emphasis on evolution of basic economic institutions and behavior in a capitalist society, and economic problems and solutions evolved by society. M T W 2. Mr Jones, first semester; Mr Britt, second semester.
- [214a *Personal Finance and Consumer Economics.* Some bases for economic decisions, and methods of economic response at the individual and family level. For freshmen by permission of the instructor. Not open to students who have taken or are taking Economics 21 or 22b.]
- 31a *Advanced General Economics.* The theory of the firm, the household, and the market, and its application to the American economy. Recommended for juniors majoring in the department. Prerequisite, 21, 21b, or 22b. M T W 9, 10. Mr Averitt.
- [31b *Advanced General Economics, continued.* Further topics, with particular emphasis on the determination and effects of the level of national income.]
- 38b *Economic Statistics.* Correlation, index numbers, time series, and selected applied topics. Open to sophomores. Prerequisite, 28a. Lec. M T 12; lab. T 4-6. Mr Britt.

B. The American Economy

- 32a *American Labor Movement.* Examination and analysis of the growth, organization and objectives of trade unions; selected issues and problems in the process of collective bargaining; evolution of the public policy framework for collective bargaining. Open to sophomores who have passed 21. M T W 9. Mr McCartney.
- 33b *Economics of Labor.* Analysis of labor force and labor markets; impact of collective bargaining; private and governmental programs for worker security. Prerequisite, 21. M T W 9. Mr McCartney.
- 35 *Money, Income and Economic Policy.* Monetary and fiscal policies will be considered with respect to their effectiveness in achieving the economic goals of full employment, growth and price stability. Analysis will be conducted within the framework of the theory of income determination and existing financial and political institutions. Prerequisite, 21, 21b, or 22b. W Th F 2. Mr Sloane.

ECONOMICS

- [36a *Fiscal Policy.* Government policies with respect to taxation and expenditure as they affect economic growth and stability. The importance of balancing the budget, automatic versus discretionary stabilizers, impact of taxation upon spending and investment decisions. Particular attention will be given to current national and local problems. Prerequisite, 21, 21b, or 22b.]
- [39a *Problems in Economic Security.* A critical examination of the American social insurance system. Consideration will be given to the programs in old age and survivors' insurance, public assistance, unemployment compensation, workmen's compensation, rehabilitation, and disability insurance together with proposals for financing medical care. Prerequisite, 21, Social Science 192, or permission of the instructor.]
- 312a *Competition and Monopoly in American Industry.* Analysis and critique of industry structure, conduct, and performance. The level and causes of concentration with implications for performance, including such topics as pricing policies, mergers, role of advertising, determinants of research, and investment policies. Criteria for judging adequacy of performance. Prerequisite, 21, 21b, or 22b. Th 11-1, F 11. Mr Costello.
- 313b *Government and Business.* The development and nature of public control and regulation of business; the role of anti-trust regulations; other government policies that direct and regulate business. Problems of present-day government regulation and control in various industries. Prerequisite, 312a, or 21 and permission of the instructor. Th 11-1, F 11. Mr Costello.
- 328a *American Economic Structure: Contemporary Problems.* Organization of the United States economy; ideological justifications; regional differences; role of large and small business; economic impact of government on agriculture, defense industries, cities. Prerequisite, 21. W Th F 3. Mr Averitt.

C. International and Comparative Economics

- 315a *International Economics.* Introduction to postwar international economic problems, and their historical and theoretical backgrounds. Prerequisite, 21, 21b, or 22b. M T W 11. Miss Bacon.
- 319a *Comparative Economics: Modern Industrial Systems.* Free Enterprise, the Welfare State, and centrally planned economies. Special emphasis on comparisons between selected Communist and non-Communist countries. Prerequisite, 21, 21b, 22b, or permission of the instructor. M T W 10. Mr Olson.

ECONOMICS

- 320b *Comparative Economics: Underdeveloped Areas.* A comparative study of the economies of selected underdeveloped countries in their political and social setting. Problems of development. Japan as a unique case of non-Western industrialization. Prerequisite, 21, 21b, 22b, or permission of the instructor. M 3-5, T 3. Miss Bacon.
- 324b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Prerequisite, completion of Group E distribution requirement. Open to sophomores by permission of the instructor. M T W 11. Mr Fox.
- [327a *Problems of Growth in Western Europe since World War I.* Prerequisite, 21. Mrs Augustine.]

SEMINARS

- 42a *Problems in Applied Economics.* Topic for fall semester 1965-66: Research and development in American industry. Prerequisite, 31a or 312a. W 7:30. Mr Costello.
- 411a *Major Economic Issues in American Presidential Campaigns.* Background and nature of the issues, opinions of contemporary economists, and impact on the economy of subsequent government action. Th 4-6. Mr Britt.
- [414a *Comparative Labor.* Alternates with 493b (a). T 3-5. Mr McCartney.]
- 416b *International and Comparative Economics.* T 7:30. Miss Bacon.
- 418b *Latin American Economics.* Topic for 1965-66: Economic Problems and Policies in Mexico, Brazil, and Chile. Prerequisite, 21. Recommended background, History 13 and Economics 320b. Th 4-6. Mr Averitt.
- 419b *Special Problems of the Soviet Economy.* Prerequisite, 319a; or, normally in combination with a course on Russia or the Soviet Union, 21. M 7:30. Mr Olson.
- 493a *Economic Development in Africa South of the Sahara.* Alternates with 414a. Mr McCartney.
- HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology.* The Negro in America. Open to students by permission of the instructor. Mr Weinstein, Mr Elkins, Mr Rose.

ECONOMICS

40b *Major Economic Issues.* Required of all senior majors. W 7:30. Members of the Department.

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in economics above Grade I. *Two or three hours.*

THE MAJOR

Advisers: Members of the Department.

Based on 21, 21b, or 22b.

Essential Courses: 40b and eighteen semester hours in economics above Grade II.

Optional Courses: nine semester hours in economics or appropriate courses in other departments.

Majors may spend the junior year abroad if they meet the college requirements as stated under the description of the Junior Year Abroad.

HONORS

Director: Miss Bacon.

Prerequisite: 21, 21b, or 22b.

Program: 31a; and 35, or the unit in *Economic Thought*, or the unit in *Money, Income and Economic Policy*, are essential for honors, and count as part of the required eighteen hours of Grade III work. In addition to the eighteen hours, there is required in the first semester of the senior year a long paper to count as three or six hours, and in the second semester three hours of review.

Examinations: general theory and its applications; questions on individual fields in economics; questions coordinating the field of the major.

Units

[*International Economics.* First semester. *Three hours.* Miss Bacon.]

[*Topics in Economic Stability and Growth.* Second semester. *Three hours.*]

[*Economic Thought.* Selected major figures in the development of economics. First semester. *Three hours.* Mr Averitt.]

[*Money, Income, and Economic Policy.* The year. *Six hours.* Mr Sloane.]

[*Comparative Economic Systems.* Second semester. *Three hours.*]

[*Labor Problems.* First semester. *Three hours.* Mr McCartney.]

[*Problems of Underdeveloped Countries.* Second semester. *Three hours.* Miss Bacon.]

EDUCATION & CHILD STUDY

PROFESSORS:	†CLIFFORD RICHARDSON BRAGDON, A.M., ED.M. HELEN EVANGELINE REES, ED.D., Director, Preschool and Elementary School Teacher Preparation, <i>Chairman</i>
ASSISTANT PROFESSORS:	LAWRENCE A. FINK, ED.D., Director, Secondary School Teacher Preparation SEYMOUR WILLIAM ITZKOFF, ED.D.
INSTRUCTOR:	ELSIE HARRIET KOESTER, A.M.
TEACHING FELLOWS:	MARTHA SUE BLACKLEDGE, A.B. DEBORAH ANN BROWN, A.B. JOANNE EBERT MARSDEN, A.B.
LECTURERS:	²JOSEPH CONTINO, A.M. JOHN JOSEPH FEENEY, M.ED. ISOBEL REYMES KING, A.M. NELSON R. OHMART, A.B.

Students who desire to comply with the varying requirements of different states for certificates to teach in public elementary and secondary schools are urged to consult the Department as early as possible during their college course.

The following are recommended as background courses to students planning to major in education and child study: Biological Science 195, Psychology 11a, 25b, Sociology 11a, Zoology 11 or 12.

- 21a *Foundations of Education.* Historical and philosophical background of modern education. M T W 3. Mr Itzkoff.
- [22a *Educational Psychology.*]
- 22b *Educational Psychology.* The educational process considered from the point of view of psychology. The application of psychological principles of development, motivation, and learning to contemporary educational problems. Section (a) no prerequisite. Open only to those who have not had Psychology 11a. M T W 12. Section (b) prerequisite, Psychology 11a. Open to freshmen who have passed 11a. M T W 3. Mrs Musgrave.
- 23a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Prerequisite, Psychology 11a. M T W 9. Mr McKinney.
- 23b A repetition of 23a. Open to freshmen who have passed Psychology 11a. M T W 11. Mr McKinney.

EDUCATION & CHILD STUDY

- 24b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Prerequisite, Psychology 11a. M T W 9. Mr McKinney.
- 31a *The Child in Modern Society.* Place of the child in society; mental hygiene of early childhood; social and educational agencies concerned with child welfare. Directed observations. Open to sophomores by permission of the instructor. Th F 2 and one observation period. Mrs King.
- 32b *Foundations of Secondary Education.* Characteristics of the secondary school pupil; present functions and organization of secondary schools; curriculum. Directed observation in public and private schools. M T W 2. Mr Fink.
- 34b *Theories of Knowledge and the Curriculum.* The formation and structure of knowledge in its relation to the problem of curriculum construction. Approached through historic and contemporary materials. Prerequisite, 21a or Philosophy 11 and permission of the instructor. M T W 3. Mr Itzkoff.
- 35a *Child Development from the Early Years to Adolescence.* A study of growth, development, and guidance of children in school and at home in relation to the educative process. Directed observations in the laboratory schools. Recommended background, 21a or b, 22a or b, or 23a or b. Two class hours and three hours of observation. T W 9. Miss Rees, Mrs Koester.
- 35b A repetition of 35a. T W 11. Mrs Koester.
- 36a *American Education.* Evolution of American educational thought and institutions; development of American education related to the growth of the nation and the changing social order. Open to sophomores by permission of the instructor. M T W 10. Mr Fink.
- 37a *Comparative Education.* Influence of national culture upon education; contemporary reform and problems of education in England, France, Italy, Western Germany, and the U.S.S.R.; research on other national systems. Prerequisite, 21a or b or History 11. Open to sophomores by permission of the instructor. M T W 2. Mr Itzkoff.
- 39a *Educational Evaluation and Guidance.* Study of the various means of evaluating learning and teaching; principles of guidance as they affect growth and development throughout the school years. M 7:30 and a laboratory period to be arranged. Mr Ohmart.

EDUCATION & CHILD STUDY

- 40b Senior Unit, designed to correlate and unify the student's work in her major field. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in education. *Two or three hours.*
- 42b *Advanced Educational Psychology.* Selected problems, reports, and discussion. For juniors and seniors by permission of the instructor. Prerequisite, 23a or 23b, 24b, or 35a or 35b, or 32a or 32b. M 7:30. Miss Rees.
- 44a *Seminar in Child Psychology.* Selected problems, reports, and discussion. Prerequisite, 23a or b. T 7:30-9:30. Mr McKinney.
- 45 *Preschool and Elementary Education.* A study of the curriculum and principles of teaching in the modern nursery school, kindergarten, and elementary school through grade nine. Two class hours and directed teaching participation. Prerequisite, 35a or b taken previously or 35a concurrently *and* permission of the instructor. *Four hours each semester.* Th 4. Miss Rees, Mrs Koester.
- 46a *Secondary Education.* Procedures and curriculum in secondary schools. Two class hours and one period of observation and directed practice. Prerequisite, 32b or permission of the instructor. Th 4. Mr Fink, Mr Feeney.
- 46b *Secondary Education.* An extension of 46a for students for whom no special methods course is available. Prerequisite, 46a. M 4. Mr Fink.
- [47b *Advanced Child Study.* Demonstration of and practice in techniques for the study of children. Each student plans and carries out an individual project. One period for discussion, two laboratory periods. Prerequisite, 35a or b, or Psychology 23a or b and permission of the instructor.]
- 48a, 48b *The Teaching of English.* A course for prospective teachers of English in secondary schools. The teaching of composition and literature. Selection and presentation of material. Demonstration and practice. For seniors. Prerequisite for 48a, 32a (b) or permission of the instructor; for 48b, 48a. M T W 2. Mrs Bramwell.
- 410a, 410b *Teachers' Course.* (French 410a, 410b)
- 411a, 411b *Teachers' Course.* A one- or two-semester course for prospective teachers of secondary school physics. (Physics 411a, 411b)
- 412b *Health Education* (seminar). (Bacteriology 412b)

EDUCATION & CHILD STUDY

- 413a or 413b *Teachers' Course.* (Spanish 413a or 413b)
- [414a *Teachers' Course.* (Theatre and Speech 414a)]
- 414b *Oral Interpretation of Children's Literature.* Open to juniors. (Theatre and Speech 414b)
- 415a *Art Education.* Theory and practice of art education in the elementary and secondary school. For juniors and seniors by permission of the instructor. Prerequisite, 35a or b, or 32a or b. Recommended background, Art 13. T 7:30. Mrs Jules.
- 415b *Advanced Art Education.* A continuation of 415a. Prerequisite, 415a. T 7:30. Mrs Jules.
- 416b *Music Education.* Theory and practice of music education in the preschool and elementary grades. For juniors and seniors by permission of the Department. Prerequisite, 35a or b. Recommended background, Music 11. Th 7:30. Mr Contino.
- 418b *The Teaching of History and the Social Studies.* A course for prospective teachers of history and social studies at the secondary school level. Classroom procedure and curriculum in secondary school history and related subjects; organization and presentation of subject matter. Two class hours with observation and directed practice teaching. Prerequisite, 46a and permission of the instructor. Th 4. Mr Fink.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced Studies: special problems in education. *Two or three hours each semester.*
- 52b *Problems of American Education.* Required of all candidates for the M.A., the M.Ed., and the M.A.T. degrees. M 4. Mr Itzkoff.
- 54b *Problems of Preschool and Elementary Education.* Required of all candidates for the M.Ed., and the M.E.D. degrees. T 4. Mrs Koester.
- 55a *Secondary Education.* Th 4. Mr Fink.
- [56a *Higher Education.* History and present status in the United States.]

EDUCATION & CHILD STUDY

59, 59a, 59b *Practice Teaching*. Given under the supervision of members of the Department. For qualified graduate students by permission of the Department.

510a *Advanced Child Development*. Required of all candidates for the M.Ed. and the M.E.D. degrees. T 4. Mrs Koester.

Advisers of graduate study: Miss Rees and Mr Fink.

THE MAJOR

Students majoring in the Department may prepare for preschool or elementary school teaching or for graduate work leading to an advanced degree. Students who intend to teach in secondary school are advised to major in the field in which they expect to teach and to take basic courses in education.

Adviser: Miss Rees.

Based on 21a or b, or 22a or b *and* one course in education and child study, psychology, sociology, or Social Science 192.

Essential Courses: 40b and eighteen semester hours in education.

Optional Courses: other courses appropriately related.

HONORS

Director: Mr Fink.

Prerequisites: courses listed as bases for the majors.

Program and Examinations: detailed plans of study may be had on consultation with the director.

ENGLISH LANGUAGE & LITERATURE

PROFESSORS:	CHARLES JARVIS HILL, PH.D. HELEN WHITCOMB RANDALL, PH.D. DANIEL AARON, PH.D. †ALFRED YOUNG FISHER, DOCTEUR DE L'UNIVERSITÉ DE DIJON ELEANOR TERRY LINCOLN, PH.D. ROBERT TORSTEN PETERSSON, PH.D., <i>Chairman</i>
WRITER IN RESIDENCE:	JAMES FARL POWERS
ASSOCIATE PROFESSORS:	KENNETH AMOR CONNELLY, JR., PH.D. RICHARD BENJAMIN YOUNG, PH.D. VERNON JUDSON HARWARD, JR., PH.D. FRANK H. ELLIS, PH.D. FRANCIS E. X. MURPHY, PH.D.
ASSISTANT PROFESSORS:	WILLIAM HOOVER VAN VORIS, PH.D. ELIZABETH GALLAHER VON KLEMPERER, PH.D. JOAN MAXWELL BRAMWELL, M.A. CARL ROBINSON SONN, LL.B., A.M. HELEN HENNESSY VENDLER, PH.D. HAROLD LAWRENCE SKULSKY, PH.D.
INSTRUCTORS:	MARGARET L. SHOOK, M.A. ALICE ADAIR COOPER, PH.D. MAURIANNE SCHIFREEN ADAMS, A.B. MARY JEAN CARRUTHERS, PH.D. DAVID CAVITCH, M.A. JANICE L. WILSON, M.A. MOYRA JEAN BUCHAN, M.A.
LECTURERS:	ALUN MORSE DAVIES, M.A. ANTHONY EDWARD FARNHAM, PH.D. JEAN GARRIGUE, M.A. ARNOLD MELVYN GOLDMAN, PH.D. RONALD HINDMARSH, B.A. THOMAS ARTHUR MICHAEL IRWIN, M.A., B.LITT. PAUL PICKREL, PH.D. NORMAN ALBERT ESDALE POWER, M.A. EDNA REES WILLIAMS, PH.D.

The courses in English which may be taken to fulfill the distribution requirement in Group A are 27, 211, 212.

Grade III courses are open to sophomores who have completed three hours of work in Section A below or in General Literature 291.

ENGLISH LANGUAGE & LITERATURE

Students who are planning a major in English are urged to take related courses in classics, modern European literature, history, philosophy, religion, and art.

- 11 *Freshman English.* Practice in expository and critical writing in connection with the study of selected literary texts. Several versions of the course are offered. Members of the Department. Mr Murphy (*Director*).
- 13a *Introduction to College English for Foreign Students.* Th 2-4 and an hour to be arranged. Mrs Bramwell.

A. Language and Literature

- 25a *Literature of the Middle Ages.* Motifs, traditions, and the development of genres, studied in various medieval works, including the *Nibelungenlied*, the *Song of Roland*, Celtic folk tales, courtly romances, allegory, lyrics, and drama. Reading in translation. M T W 10. Mr Harward.
- 25b *Shakespeare:* Romeo and Juliet, Richard II, I Henry IV, II Henry IV, As You Like It, Hamlet, Othello, The Winter's Tale. M T W 12. Mr Hill.
- 27 *The History of English Literature.* Emphasis is placed on the development of the literature of England, its traditions, conventions, and themes. The course is conducted by lecture and tutorial instruction. M T W 11. Mr Harward, Mr Murphy, first semester; Mrs von Klemperer, Mr Sonn, second semester. Mrs von Klemperer (*Director*).
- 211 *Literature of the Nineteenth and Twentieth Centuries.* M T W 10, 12. Miss Randall, Mrs von Klemperer, Miss Shook, first semester; Miss Randall, Miss Shook, Miss Cooper, second semester.
- 212 *American Literature to 1900.* M T W 9. Mr Aaron.
- 30a *The Grounds of Literary Judgment.* Various approaches to the study of literature. Required of juniors majoring in English. M T W 9, 10; W Th F 3; Th F S 9. Members of the Department. Mrs Vendler (*Director*).
- 30b A repetition of 30a. Open to sophomores. M T W 11, W Th F 2, Th F S 10. Members of the Department. Mrs Vendler (*Director*).
- 31a *Chaucer.* A study of his art and of his social and literary background. Emphasis on the *Canterbury Tales*. M T W 12, Th F S 10. Mr Harward, Miss Carruthers.

ENGLISH LANGUAGE & LITERATURE

- 31b *Chaucer.* Repetition of 31a. M T W 12, Th F S 10. Mr Harward, Miss Carruthers.
- 32b *Medieval Literature.* A study of Chaucer's *Troilus and Criseyde* and of his minor poems; selected reading from other works of the period. Prerequisite, 31a or 31b. M T W 10. Mr Harward.
- 33a *The English Language.* Main historical developments from the beginning to 1400, illustrated from readings in each period. Studies in literary interpretation and style. M T W 3. Mr Farnham.
- 33b *The English Language.* Continuation of 33a from 1400 to the present. Prerequisite, 33a. M T W 3. Mr Farnham.
- 34a *Old English.* A survey of language and literature before 1066, with reading of prose and poetry, both in the original and in translation. W 2-4, Th 2. Miss Williams.
- 34b *Old English.* A study of *Beowulf*. Prerequisite, 34a. W 2-4, Th 2. Miss Williams.
- 35a *Sixteenth-Century Literature.* Prose and poetry from Wyatt through the poems of Shakespeare, studied in the light of ideas and forms characteristic of the Renaissance. Not open to students who have taken 411a. Th F S 10. Mr Skulsky.
- 36a *Shakespeare:* Richard III, Love's Labour's Lost, Romeo and Juliet, As You Like It, Twelfth Night, Richard II, Henry IV Parts 1 and 2, Henry V, Hamlet. Not open to students who have taken 25b. M T W 10. Mr Young.
- 36b *Shakespeare:* Measure for Measure, King Lear, Macbeth, Troilus and Cressida, Coriolanus, Antony and Cleopatra, The Winter's Tale, The Tempest. M T W 10. Mr Young.
- 38a *Seventeenth-Century Prose.* Major prose writers, including Browne, Milton, Pepys, Bunyan, and especially Donne, with emphasis on Baroque style and concepts, in literature and other arts. W Th F 3. Mr Petersson.
- 39a *Seventeenth-Century Poetry from Donne to Dryden.* Discussion of the Petrarchan convention, metaphysical imagery, Platonism, Christian-Humanism, and related topics. Th F S 9. Miss Lincoln.

ENGLISH LANGUAGE & LITERATURE

- 39b *Milton*. The major and minor poems with attention to current problems in interpretation and criticism. Th F S 9. Miss Lincoln.
- 310a *The Augustan Age*. Discussion of the major figures: Dryden, Swift, Pope; outside paper on Defoe, Addison, or Gay. W Th F 2. Mr Ellis.
- 310b *The Age of Johnson*. Discussion of the major figures: Johnson, Goldsmith, and Boswell; outside paper on one lesser figure. W Th F 2. Mr Ellis.
- 311b *Restoration and Eighteenth-Century Drama, 1660-1800*. A close study of the backgrounds, modes of production, and texts of significant plays. M T W 2. Mr Van Voris.
- 313b *Tragedy*. Tragic forms, themes, and theories. Open only to juniors and seniors. W Th F 3. Mr Petersson.
- 314a *The English Novel*. Defoe to Jane Austen. M T W 11. Mr Hill.
- 314b *The English Novel*. Dickens to E. M. Forster. M T W 11. Mr Hill.
- 315a *Romanticism*. Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats studied in relation to the romantic movement in England. M T W 12. Miss Randall.
- 317b *Victorian Prose and Poetry*. Theme and technique in the prose of Carlyle, Mill, Newman, Arnold, and Ruskin, and the poetry of Tennyson, Browning, Arnold, the Rossettis, Swinburne, and Hopkins. M T W 12. Mrs von Klempner.
- 318b *Twentieth-Century British Literature*. Joyce and Yeats. Open only to juniors and seniors. Th F S 10. Mr Connelly.
- 321a *Transcendentalism in American Literature*. Emerson, Thoreau, and Whitman. M T W 9. Miss Cooper.
- 321b *Hawthorne, Poe, and Melville*. M T W 9. Mr Murphy.
- [322a *American Literature from the Civil War to the End of the Nineteenth Century*. Alternates with 321a. M T W 11. Mr Aaron.]
- 322b *American Literature from the Beginning of the Twentieth Century to the Present*. M T W 11. Mr Aaron.
- 323a *Idea and Form in Twentieth-Century Fiction*. Open only to juniors and seniors. Th F S 9. Mr Connelly.

ENGLISH LANGUAGE & LITERATURE

- 325a *Modern Poetry*. Characteristic themes, imagery, and forms of modern British and American poetry. Given in alternate years. Th F S 11. Mrs Vendler.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in English above Grade I. *Two or three hours*.
- 48a, 48b *The Teaching of English*. A course for prospective teachers of English in secondary schools. The teaching of composition and literature. Selection and presentation of material. Demonstration and practice. For seniors. Prerequisite for 48a, Education 32a (b) or permission of the instructor; for 48b, 48a. M T W 2. Mrs Bramwell.

Undergraduate Seminars

Open to seniors and juniors by permission of the instructor. Limited to twelve students.

- 410b *Medieval English Drama and Poetry*. A study of origins, themes, and literary forms. Th 4-6. Miss Carruthers.
- 411b *Spenser and Jonson*. Studies of selected works as representative of dominant and divergent tendencies of English Renaissance literature. M 7:30-9:30. Mr Young.
- 412a *The Heroic and Pastoral Traditions*. Classical, religious, philosophical, and political adaptations of the conventions, and their development to the present day in poetry, drama, and fiction. T 2-4. Miss Lincoln.
- 413a *English Drama from 1560 to 1642*. Shakespeare's predecessors and contemporaries. M 7:30-9:30. Mr Young.
- [414a *Biography, Memoirs, Journals, and Letters of the Eighteenth Century*.]
- 414b *Satire*. Major satire in prose, verse, and drama, with emphasis on selected writers of the Augustan era. M 7:30-9:30. Mr Van Voris.
- 415a *Literary Criticism from Dryden to the Present*. A study of neo-classical, romantic, and contemporary criticism. T 7:30-9:30. Miss Randall.
- 416a *The Comic*. Theories of humor; comedy of situation, character, language; great comic figures. Examples of comedy in verse, prose, and drama, drawn primarily from English literature. M 7:30-9:30. Mrs von Klemperer.

ENGLISH LANGUAGE & LITERATURE

- 418a *Themes in Nineteenth-Century American Literature: The Civil War and the American Writer.* T 7:30-9:30. Mr Aaron.
- 418b *American Literary Movements, 1900-1920: The Minority Writer in Contemporary Fiction.* T 7:30-9:30.
- 419a *American Poetry from the Seventeenth Century to the Present.* Critical and historical interpretation of the poetry of Bradstreet, Taylor, Freneau, Bryant, Emerson, Whitman, Dickinson, Melville, Poe, Robinson, and Frost. Th 2-4. Mrs Vendler.
- 420b *Preromanticism.* Romantic tendencies in the eighteenth century: sentiment and sensibility; the rediscovery of nature; primitivism and progress; varieties of liberalism; represented in the works of such writers as Steele, Thomson, Gray, Collins, Sterne, Cowper, Burns, Blake, and Paine. Th 3-5. Mr Ellis.
- 421b *Religious Poetry.* English devotional poems, with particular emphasis on Herbert, Donne, Hopkins, and Eliot. Th 7:30-9:30. Mrs Bramwell.
- 422a *James Joyce.* An intensive study of *Ulysses*. W 7:30-9:30. Mr Goldman.
- 424b *Eighteenth-Century Poetry.* Studies in the relation of the poetry to the New Philosophy and such writers as Hobbes, Locke and Hume. W 7:30-9:30. Mr Sonn.
- 427b *A Major British or American Novelist.* For 1965-66: D. H. Lawrence. T 7:30-9:30. Mr Cavitch.

Graduate Seminar

- 56b *Shakespeare.* Th 7:30-9:30. Mr Goldman.

B. Courses in Writing

Only one course in English composition may be taken in any one semester except by permission of the chairman. Second semester courses are open to students who have not taken the corresponding course in the first semester.

- 220a *Various Forms of Writing.* Fiction. W Th F 3, Th F S 10. Mrs Wilson, Mr Irwin.
- 220b *Various Forms of Writing.* Poetry or fiction. M T W 11, W Th F 3. Miss Garrigue, Mr Irwin.

ENGLISH LANGUAGE & LITERATURE

[347a, 347b *Short Story Writing*. Though the emphasis in this course will be on fiction, opportunity will be given for other kinds of writing. By permission of the instructor. M 4-5:30 and an hour and a half to be arranged.]

425a *Poetic Techniques*. By permission of the instructor. W 7:30-9:30 and an hour to be arranged. Miss Garrigue.

428a, 428b *The Writing of Fiction*. By permission of the instructor. Th F 11. Mr Powers.

THE MAJOR

Advisers: Mr Hill, Miss Randall, Mr Connelly, Mr Young, Mr Ellis, Mr Murphy, Mr Van Voris, Mrs von Klemperer, Mrs Bramwell, Mr Sonn, Miss Shook, Mrs Adams.

Based on six semester hours from Section A above or General Literature 291.

Essential Courses: 30a or b, 31a or b, 36a or b.

Three hours chosen from: 35a, 38a, 39a or b, 411b, 413a.

Three hours chosen from: 310a or b, 311b, 314a, 414a, 420b, 424a.

Nine additional hours from Section A except 48a, 48b.

Optional Courses: six semester hours in English or foreign literatures or in closely allied fields.

The English Department strongly recommends that students in the major elect at least one seminar a year.

Students majoring in English are required to pass a general examination at the end of the senior year.

HONORS

Directors: For the Class of 1966, Mr Harward; for the Class of 1967, Miss Lincoln.

Prerequisites: see the requirements for entrance to the major.

Program: students must fulfill the general requirements of the major. Exceptions to the general rule that honors students must fulfill the distribution requirements of the English major may be made with the approval of the directors. Candidates must take at least one unit each semester in the junior year, and at least one unit in the senior year. In the first semester of the senior year honors students will present a long paper to count for three hours, outside the twenty-one semester hours in the department.

Three examinations are given at the end of the senior year. The first is on major figures; the second on general topics; the third requires a close critical analysis of particular works and passages.

ENGLISH LANGUAGE & LITERATURE

Units

First semester

Shakespeare. Six hours. T 7:30-9:30. Mr Hill.

Milton. Six hours. W 7:30-9:30. Mr Sonn.

English Novelists. Six hours. Th 7:30-9:30. Mr Pickrel.

Aesthetics (Department of Philosophy). This unit is open to a limited number of students in English. *Six hours. Miss Walsh.*

Second semester

Medieval Literature. Six hours. Th 4-6. Mr Harward.

Historical Perspectives: The Renaissance to 1900. Six hours. T 2-4. Miss Lincoln.

The Augustans. Six hours. Th 4-6. Mr Connelly.

Blake. Three hours. T 7:30-9:30. Miss Randall.

FRENCH LANGUAGE & LITERATURE

PROFESSORS:	<p>JEAN COLLIGNON, AGRÉGÉ DE L'UNIVERSITÉ, <i>Chairman</i> †JULIEN SERGE DOUBROVSKY, AGRÉGÉ DE L'UNIVERSITÉ, DOCTEUR-ÈS-LETTRES †JEAN PARIS, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES</p>
ASSOCIATE PROFESSORS:	<p>ANNE GASOOL, A.M. **JOSEPHINE LOUISE OTT, PH.D.</p>
ASSISTANT PROFESSORS:	<p>ANDRÉE DEMAY, AGRÉGÉE DE L'UNIVERSITÉ MARIE-ROSE CARRE, DOCTEUR DE L'UNIVERSITÉ DE PARIS §PATRICIA WEED, PH.D. MARIE-JOSÉ MADELEINE DELAGE, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES JUDITH KAY ADAMS, PH.D. ANTOINETTE PELLETIER, AGRÉGÉE DE L'UNIVERSITÉ</p>
INSTRUCTORS:	<p>*MIREILLE AZIBERT, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRI- EURES RICHARD TEDESCHI, M.A. MARJORIE ANN FITZPATRICK, A.M. LOUIS EUGENE AULD, M.A. MICHELINE FORT, CERTIFICAT D'APTITUDE AU PROFESSORAT DE L'ENSEIGNEMENT SECONDAIRE LAWRENCE ALEXANDER JOSEPH, A.M. THEODORE ANTHONY PERRY, A.B. RICHARD ALAN SMERNOFF, A.M.</p>
LECTURERS:	<p>JOHN BUTEAU, A.M. †JEAN LAMBERT, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES LUCILE MARTINEAU, A.M., M.S.W. ROBERT PIGNARRE, AGRÉGÉ DE L'UNIVERSITÉ</p>

French 26 will fulfill both the foreign language requirement and the distribution requirement in Group A. In addition, any Grade III course in French literature, except 312a, 323a, and 392b may be taken to fulfill the distribution requirement in Group A.

All classes in the Department except 312a are conducted in French.

Language courses may require work in the Language Laboratory.

It is recommended that students planning to major in French have a reading knowledge of a second language (ancient or modern) and take a general course in English literature, one in European history, and/or one in French history. Students planning to spend their junior year in Paris as French majors are advised to take French 26 before their junior year.

FRENCH LANGUAGE & LITERATURE

Students planning to spend their junior year in Paris are urged to take History 11 before their junior year.

A. Language

- 11D *Elementary Course.* Six hours each semester. For students presenting no entrance units in French. Lec. Th 5; sect. M T W Th F 10; M T W 3, Th F 2. Members of the Department. (L)
- 12 *Intermediate Course.* Prerequisite, two units in French. Lec. Th 5; sect. M T W 9; Th F S 9, 12. Members of the Department.
- 13 *Reading, Grammar, and Composition.* Prerequisite, three units in French or 12. Lec. Th 5; sect. M T W 9, 10; Th F S 9, 10, 12. Members of the Department.
- 22a, 22b *Composition and Grammatical Analysis.* Study of modern texts from the point of view of language. Prerequisite, four units in French, 13, or 16. Prerequisite for 22b, 22a, or permission of the chairman. M T W 9, 10, 11, 12, 2; Th F S 9, 12. Members of the Department. (L)
- [24a *Theoretical and Practical Phonetics.* Exercises in hearing, pronunciation, and phonetic dictation. Open to freshmen. Two class hours. *One hour.*]
- 31a *Advanced Course in Composition.* Prerequisite, 22a and b, or by permission of the instructor. M T W 12. Miss Gasool.
- 33b *Discussion and Debate.* Limited to twelve students. By permission of the instructor. Open to sophomores. Two class hours. *One hour.*
- 410a *Teachers' Course.* Problems and methods of modern language teaching in the elementary and secondary schools. Practice teaching at these levels in the Northampton schools. Permission of the instructor. W 7-9. Mr Buteau.
- 410b A continuation of 410a. Prerequisite, 410a, or by permission of the instructor. W 7-9. Mr Buteau.

B. Literature

Unless otherwise stated the prerequisite for courses of Grade III is 26.

- 15 *Introduction to French Literature.* Choice of representative texts from the Middle Ages to the present day. Literary, historical, and cultural background. The written work is in English. Prerequisite, three units in French, 12, or 11D. Lec. Th 5; sect. M T W 10, 12; Th F S 10, 11. Members of the Department. (L)

FRENCH LANGUAGE & LITERATURE

Introduction to French Literature. This course is of the same grade and plan as 15 but the written work is in French. Recommended, instead of 15, for students planning to continue the study of French. Prerequisite, three units in French, 12, or 11D. Lec. Th 5; sect. M T W 10, 11, 12, 2; Th F S 9, 10, 11, 12. Members of the Department. (L)

Masterpieces of French Literature of the Seventeenth Century. Representative authors and literary movements of the seventeenth century. Prose, poetry, theatre. Prerequisite, four units in French, 13, 16, or by permission. M T W 9, 10, 11, 12, 2, 3; Th F S 9, 10, 11, 12. Members of the Department. (L)

Masterpieces of French Literature of the Seventeenth Century. A program similar to that of 26. For a limited number of students with a superior preparation in French. Prerequisite, four units in French, 13, 16, or by permission of the instructor. M T W 11, 12. Mrs Carre. (L)

Life and Works of Molière. Open to sophomores by permission of the instructor. W Th F 2.]

French Literature of the First Half of the Nineteenth Century. Open to sophomores. M T W 10, 3; Th F S 10. Miss Ott, Miss Delage, Miss Pelletier.

French Literature of the Nineteenth Century from 1848 to 1890. Open to sophomores. Prerequisite, 311a, or by permission of the instructor. M T W 10; Th F S 10. Miss Delage, Miss Pelletier.

French-Canadian Civilization from 1763 to the Present. Conducted in English. No prerequisite; recommended background, a reading knowledge of French. Open to sophomores. W Th F 2.]

French Literature of the Eighteenth Century. The novel and the theatre. Open to sophomores. M T W 9. Mr Collignon.

French Literature of the Eighteenth Century. The Enlightenment and the "Philosophes." Open to sophomores. M T W 9. Mr Collignon.

French Literature of the Middle Ages. Open to sophomores. (Not to be given in 1966-67.) M T W 10. Mr Tedeschi.

French Literature of the Renaissance. Open to sophomores. To be given in 1966-67. Miss Azibert.]

Modern France. Social and cultural trends. M T W 11. Mrs Martineau.

FRENCH LANGUAGE & LITERATURE

- 40b *Directed Readings for Correlation of the Major Field.* T 2-4. Mr Collignon.
- 41, 41a, 41b Special Studies in language or literature. By permission of the Department for senior majors who have had twelve semester hours above Grade I in French. *Two or three hours.*
- 46b *Modern French Poetry.* For seniors by permission of the instructor. Th 2, F 2-4. Mr Pignarre.
- 418a *Contemporary French Drama.* Recommended background, 311a and b. Th F S 11. Mr Pignarre.
- 418b *Contemporary French Novel.* Recommended background, 311a and b. Th F S 11. Mr Pignarre.

C. Seminars

Open to seniors and juniors by permission of the instructor.

- 42b *Seminar in Stylistics.* Compositions, translations from the English, analyses of various oral and written French styles. Prerequisite, 31a. W 2-4. Miss Demay.
- [45a, 45b *Modern French Thought.* A study of the main currents of French thought from the Renaissance to the present. Special emphasis on contemporary thinkers: Bergson, Alain, Valéry, Simone Weil, Gabriel Marcel, Camus, Sartre. Prerequisite for 45b, 45a. Recommended background, Philosophy 11. Mr Doubrovsky.]
- 47a *Studies in Eighteenth-Century Literature.* For 1965-66; Rousseau and Pre-Romanticism. Th 4-6. Mr Pignarre.
- [48a *Studies in Nineteenth-Century Literature.*]
- 49a *Studies in Twentieth-Century French Literature.* For 1965-66: Proust. T 2-4. Mr Collignon.

D. Graduate Courses

- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies arranged in consultation with the Department. *One hour or more.*

FRENCH LANGUAGE & LITERATURE

[53a *Corneille*. M 4-6. Mr Doubrovsky.]

[54b *French Classics, 1660-1700*.]

55b *The Idea of Progress*: "La Querelle des Anciens et des Modernes." M 4-6.
Mrs Carre.

Adviser of graduate study. Mr Tedeschi.

THE MAJOR

Advisers: Class of 1966, Mrs Carre; class of 1967, Miss Demay.

Based on 26; on 16 or 13 if 26 is taken junior year in addition to the major.

Essential Courses: 311a and b, 40b, and fifteen semester hours in French.

Optional Courses: other courses in the Department or in allied fields.

HONORS

Director: Miss Demay.

Program:

Requirements: the general requirements for the major; a unit involving the writing of a paper; a second unit or a seminar.

Optional: with the approval of the director any unit or course in French or in an allied field of Grade III or IV, or, for seniors, Grade V.

Examinations: One general examination on the whole field of French literature will be written in French; one specialized examination on a limited period selected by the candidate (sixteenth, seventeenth, eighteenth, nineteenth or twentieth century) will be written in French; one on language with translation from English to French, from French to English, and a short composition in French.

GEOLOGY & GEOGRAPHY

PROFESSOR:	CAROLINE HEMINWAY KIERSTEAD, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	**ROBERT FRANK COLLINS, A.M. MARSHALL SCHALK, PH.D. HELEN STOBBE, PH.D.
INSTRUCTOR:	NANCY ATHERTON CASE, M.A.T.
TEACHING FELLOW:	JO-ANNA RAE SIMPSON, A.B.

Geology 11 may be taken to fulfill the distribution requirement in Division III.

Students planning to major or to do honors work in geology are required to take six semester hours in at least one of the following: chemistry, mathematics, physics, or zoology.

- 11 *General Geology.* Forces of nature now modifying the materials and structure of the earth; history of the earth. Field trips. Two lectures and two and one-half hours of laboratory. Lec. Th F 10; lab. M T Th F 2. Members of the Department.
- 21a, 21b *Introductory Meteorology.* The weather elements; their observation; air mass analysis; short-term and aeronautical forecasting; climatology. Prerequisite for 21b, 21a. Two lectures and one demonstration. Mr Schalk.
- 23a (formerly 323a) *Major Concepts and Problems of Paleontology.* An historical survey of the development of paleontological concepts and of applications of paleontology to the study of geology. Prerequisite, 11, Zoology 11, Earth Science in high school, or permission of the instructor. Lec. Th F 11; dem. and lab. Th 2-5. Mrs Kierstead.
- 213a *Geography of North America.* Regional characteristics of North America exclusive of Mexico. M T W 11. Mrs Kierstead.
- 31a *Geography of Asia.* Influence of relief, climate, and natural resources on the life, movements, and history of its peoples. M T W 10. Miss Stobbe.
- 31b *Europe and North Africa.* Geographic backgrounds of current problems. M T W 10. Miss Stobbe.
- 32a *South America.* Geography of the continent; climatic and physiographic backgrounds of cultural, political, and economic development. M T W 12. Miss Stobbe.

GEOLOGY & GEOGRAPHY

- [33a *Land Surfaces of the United States*. Physiographic foundations of American regional, economic, and social culture. Systematic description of physical divisions of the United States. Geomorphic processes and principles. Th F 11 and one hour to be arranged. Mr Collins.]
- 34a, 34b *Economic Geology*. Lectures and laboratory study of geological products of commercial value. Prerequisite, 11, or 324a, or Chemistry 11. Given in alternate years. Two lectures and two and one-half hours of laboratory. Miss Stobbe.
- [36a, 36b *Field Geology*. Methods; theory and use of Brunton, alidade, and other mapping instruments; topographic and geologic surveying; applied structural geology. Prerequisite for 36a, 11; 36b, 36a. To be given in 1966-67. Mrs Kierstead.]
- [37b *Stratigraphy*. Stratigraphic methods and techniques; geological systems and subdivisions. Prerequisite, 11. Two lectures and two and one-half hours of laboratory. Lec. Th F 12; lab. F 2-5. Mrs Kierstead.]
- [38a *Optical Mineralogy*. Optical properties and identification of minerals in fragments and thin sections. Prerequisite, 325b. Miss Stobbe.]
- [39b *Petrography*. Identification and classification of rocks with the polarizing microscope. Prerequisite, 38a. Miss Stobbe.]
- 314b *Geology of Petroleum and Natural Gas*. Their origin, occurrence, and distribution; application of geological principles to their finding and exploitation. Prerequisite, 11, or permission of the instructor. Mr Schalk.
- [322a *Structural Geology*. The study and interpretation of rock structures; their origin, topographic effect, and economic importance. Open to students who have passed 11. Mrs Kierstead.]
- 323b *Invertebrate Paleontology*. A study of selected fossil faunas of different ages; their composition, preservation, paleoecology, etc. A required two-day field trip. Open to students who have passed 23a. Lec. Th F 10; lab. Th 2-5. Mrs Kierstead.
- 324a *Mineralogy*. General principles; study of the more important rock-forming, economic, and gem minerals. For students who have passed or are taking 11, Chemistry 11, Physics 11, or Physical Science 193. Lec. and dis. M T 11; lab. T 2-4:30. Miss Stobbe, Mrs Case.
- 325b *Lithology*. Interrelation of the main rock types; their origin, structure, mineral composition, occurrence, and economic importance. Field methods of identification. Prerequisite, 324a. Lec. and dis. M T 11; lab. T 2-4:30. Miss Stobbe, Mrs Case.

GEOLOGY & GEOGRAPHY

- 328a *Principles of Cartographic Drafting, Editing, Reproduction.* Practice in map reading, compilation, and simple map drafting. Lec. Th F 12; lab. three hours to be arranged. Mr Collins.
- [329b *Geologic and Geographic Illustration.* Charts, graphs, block diagrams, sections Drawing for reproduction. Lec. Th F 12; lab. three hours to be arranged. Mr Collins.]
- 40b Senior Review Essay. For seniors majoring in geology or geography. Members of the Department.
- [41] 41a, 41b Special Studies in geology or geography. By permission of the Department for senior majors who have had twelve semester hours above Grade I in the Department. Members of the Department. *Two or three hours.*
- 46a, 46b *Micropaleontology.* A study of micropaleontology with particular emphasis on foraminifera, their classification and importance in petroleum geology. Two lectures and 4 hours of laboratory. Mrs Kierstead.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- [51, 51a] 51b Individual problems in geology or geography. *Two hours or more.*
- [52, 52a] 52b *Paleontology or Stratigraphy.* *Two hours or more.* Mrs Kierstead.
- [53, 53a, 53b *Physiography.* *Two hours or more.* Mr Collins.]
- [54, 54a, 54b *Structural Geology.* *Two hours or more.* Mrs Kierstead.]
- [55] 55a, 55b *Crystallography, Mineralogy, Petrology, or Gemology.* *Two hours or more.* Miss Stobbe.
- [57, 57a] 57b *Petroleum Geology.* *Two hours or more.* Mr Schalk.
- Adviser of graduate study: Mrs Kierstead.

THE MAJORS

GEOLOGY

Advisers: Mrs Kierstead, Mr Collins, Mr Schalk, Miss Stobbe.

Based on 11.

Essential Courses: 23a (formerly 323a), 36a and b, 322a, 324a, 325b, 40b and six hours in chemistry, mathematics, physics, or zoology.

Optional Courses: other courses in geology or in other sciences.

GEOLOGY & GEOGRAPHY

GEOGRAPHY

Advisers: Mrs Kierstead, Mr Collins, Mr Schalk, Miss Stobbe.

Based on 11, 213b, 21a.

Essential Courses: 11 if not already taken; 40b and twelve semester hours above Grade II in the Department.

Optional Courses: other courses in geology; courses in other sciences, history, and economics.

HONORS IN GEOLOGY

Director: Mrs Kierstead.

Prerequisites: 11; and 23a (formerly 323a), and 323b *or* 324a and 325b; and one year of college chemistry, physics, or zoology.

Program:

Requirements: 23a (formerly 323a) and 323b *or* 324a and 325b (whichever have not been taken previously); 33, 36a and 36b; and six additional hours of Grade III or above in geology *or* six hours in an advanced course of a science other than geology.

Examinations: two will be in the general field of the major; a third may be in a field of concentration.

GERMANIC LANGUAGES & LITERATURES

PROFESSORS:	**PAUL GERALD GRAHAM, PH.D. §MARIE SCHNIEDERS, PH.D.
ASSOCIATE PROFESSORS:	†REINHARD ADOLF LETTAU, PH.D. WILLY SCHUMANN, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	†HORST GUENTHER WEISE, PH.D. ALBERT MAXIMILIAN REH, PH.D.
INSTRUCTOR:	YVONNE ELIZABETH LOSCH, A.B.
ASSISTANT:	KARL ULRICH BUBROWSKI

German 25 or 26 will fulfill both the foreign language requirement and the distribution requirement in Group A. German 27a and b may be taken to fulfill the distribution requirement in Group A.

Students who possess a thorough knowledge of German considerably in excess of what their preparatory school work indicates may be assigned to more advanced classes. They should consult the chairman of the Department.

Students who plan to major in German or wish to spend the junior year in Germany should carry work in German in the first two years. A course in European history and a course in philosophy are also recommended.

Those who need a knowledge of German for use in the sciences will be advised about appropriate reading in the various German courses.

A. German Language

- 11 *Elementary Course.* Five class hours. *Three hours each semester.* M T 9, Th F 9 and three hours to be arranged. (A special section for those seniors who wish greater emphasis on reading ability will be given M T W 12.) Mr Schumann (*Director*), and members of the Department.
- 11D *Elementary Course* (covering the work of two years). Seven class hours. *Six hours each semester.* M T W Th F 10 and two hours to be arranged. Miss Losch. (L)
- 12 *Intermediate Course.* Prerequisite, two units in German or 11. M T W 11, 3, Th F S 12; lec. Th 5. Mr Reh (*Director*), and members of the Department. (L)
- 21a, 21b *Composition and Conversation.* Prerequisite, three units in German, 11D, 12, or the equivalent. M T W 11. Mr Bubrowski. (L)

GERMANIC LANGUAGES & LITERATURES

- 31a *Advanced German Composition.* Intensive practice in free composition and translation. Prerequisite, 21a and 21b, or permission of the instructor.
- 31b Repetition of 31a.

B. German Literature

The prerequisite for courses of Grade III is a Grade II course or the equivalent.

- 25 *Readings in German Literature.* Representative works (narrative, dramatic, lyric) from Goethe to Brecht. Prerequisite, three units in German, 11b, 12, or the equivalent. Th F S 10. Mr Schumann. (L)
- 26 *An Introduction to the Classical Literature of the Eighteenth Century.* Selections from the works of Lessing, Goethe, and Schiller. Prerequisite, three units in German, 11b, 12, or the equivalent. M T W 10. Mr Graham. (L)
- 32a, 32b *German Literature from the Earliest Times to the Eighteenth Century.* First semester: Nibelungenlied, the courtly epic. Minnesang. Second semester: Humanism, Reformation, Baroque, and Enlightenment. Mr Reh.
- 33a, 33b *The Age of Goethe (1770-1832).* First semester: Storm and Stress, and the Classical Period, Mr Schumann. Second semester: Romanticism.
- 34a *German Literature in the Nineteenth Century.* Realism and Naturalism, from Heine to Hauptmann. Mr Graham.
- 34b *Modern German Literature.* Nietzsche, Rilke, Thomas Mann, Kafka, Brecht, and others. Mr Schumann.
- 35b *Goethe's Faust, Parts I and II.*
- 40b Directed readings for correlation in the major field.
- 41, 41a, 41b Special Studies arranged in consultation with the Department. By permission of the Department for senior majors who have had twelve semester hours above Grade I in German. Two or three hours.
- [42a *Contemporary German Literature.* From 1945 to the present.]

C. German Literature in Translation

- [27a *The German Novel.* From Goethe to Thomas Mann. Th F S 10. Members of the Department.]
- [27b *The German Drama.* From Lessing to Brecht. Members of the Department.]

GERMANIC LANGUAGES & LITERATURES

D. Germanic Philology

[43a *Historical Survey of the German Language.*]

E. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Special Studies in the fields of literature and linguistics arranged in consultation with the Department. *One hour or more.*

Adviser of graduate study: Mr Graham.

THE MAJOR

Adviser: Mr Schumann.

Based on 11b or 12.

Essential Courses: 21a or 21b (or the equivalent); 33a, 33b; 40b, and nine semester hours of other German courses above Grade II.

Optional Courses: courses in German except 27a and 27b, in literature, history, or philosophy.

THE MAJOR IN GERMAN CIVILIZATION

Adviser: Mr Schumann.

Based on: German 11b or 12, and History 11.

Essential Courses: German 25 or 26, three hours of Grade III in German literature, German Civilization 40b; nine hours in related courses in art, government, music, philosophy, including three hours selected from History 37a, 38a, or b, 312a, 313b, 411b.

Optional Courses: other courses in German literature, related courses in art, history, government, music, and philosophy.

HONORS

Director: Mr Schumann.

Prerequisites: 21a and 21b, 26, or the equivalent.

Program: a minimum of forty-eight semester hours.

Requirements: a minimum of twenty-four semester hours in the Department; twelve hours in related fields; three or six in first semester of senior year on the preparation of a paper; three in second semester on directed reading.

Examinations: an examination on the general field; one on a specialized field; and an analytical examination which may include such topics as problems of analysis, criticism, and style, translation from German into English and from English into German, a composition in German.

GOVERNMENT

Units

The Department will offer units in the fields of linguistics, literature, and language for honors students in German or for honors students in other departments who have had a Grade II course in German. In addition, units conducted in English will be offered for honors students in other departments who have had no German.

GOVERNMENT

PROFESSORS:	CECELIA MARIE KENYON, PH.D. ALAN BURR OVERSTREET, PH.D. LEO WEINSTEIN, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	§CHARLES LANGNER ROBERTSON, PH.D. STANLEY ROTHMAN, PH.D. MARGARET LOUISE BATES, D.PHIL. **PETER NILES ROWE, PH.D. †IBRAHIM A. ABU-LUGHOD, PH.D.
ASSISTANT PROFESSORS:	JAY BERTRAM SORENSON, PH.D. PHILIP GREEN, PH.D. THOMAS PAUL JAHNIGE, PH.D.
INSTRUCTORS:	MICHAEL DAVID GILBERT, A.M. HERBERT FREDERICK STEEPER, M.A.L.D.
LECTURERS:	HARRIET BRANSON APPLEWHITE, A.M. DONALD BRUCE MARSHALL, M.A.

The distribution requirement in Group E may be fulfilled by any year course or by any two semester courses in the same section.

For students planning to major or to do honors work in the Department, Economics 21, Sociology 11a and b, and appropriate courses in history are recommended. See also the honors program.

Grade III courses are open to sophomores with the permission of the instructor.

Seminars, Grade IV courses, require the permission of the instructor and ordinarily presume as a prerequisite a Grade II or III course in the same section.

- 11 *Introduction to Political Science.* A study of the leading ideas of the Western political tradition and their application to the analysis of contemporary political systems. For freshmen and sophomores only; not open to students who

GOVERNMENT

have taken Social Science 192. Two lectures and one discussion. Lec. M T 12. Dis. W 9, 12, 2; Th 9, 12; F 11. Mr Weinstein and other members of the Department.

- 11a The first semester of 11 for sophomores who have passed Social Science 192. Hours and instructors as in 11.

A. American Government

- [21 *American Government.* The processes and functions of American government in the light of the principal concepts of American democracy. Not open to students who have taken or are taking a Grade III course in this section, or 324b. M T W 10.]
- 31a *American Constitutional Development.* The origins and framing of the Constitution; contemporary interpretations; the study of Supreme Court decisions, documents, and other writings dealing with the interpretation of the Constitution, with emphasis upon changing ideas concerning federalism and separation of powers. M T W 11. Mr Jahnige.
- 31b *American Constitutional Law.* Fundamental rights of citizens as interpreted by decisions of the Supreme Court, with emphasis on the interpretation of the Bill of Rights and the Fourteenth Amendment. Prerequisite, 31a, or permission of the instructor. M T W 11. Mr Weinstein.
- [32a *American Political Parties.* Their structure, operation, and place in the American system of government. Field study and participation in a political campaign. M T W 3.]
- [33a *Public Administration.* Political aspects of government regulations, with emphasis on transportation, public utilities, housing, and atomic energy development.]
- 33b *Administration and Policy Development.* The bureaucracy: administrative officials and the determination of public policy, with emphasis on the problem of securing responsible government through Congressional supervision, judicial review, and Presidential control. M 4-6 and one hour to be arranged. Mr Jahnige.
- 34a *City Government and Politics.* Political implications of urbanization, structure and process of municipal government, urban redevelopment and planning. T 4-6, and other meetings by arrangement with the instructor. Mr Gilbert.

GOVERNMENT

- 35a *Congress and the Legislative Process.* An analysis of the legislative process in the United States, focused upon the contemporary role of Congress in its relations with the Presidency, the federal bureaucracy, and pressure groups. M T W 3. Mr Green.
- 35b *The American Presidency.* An attempt to analyze a fluid institution in a going political system. Stress will be placed on the evolution of the modern presidency and its relationship to democratic theory. M T W 2. Mr. Gilbert.
- 42a *Seminar in American Government.* Government and Science. Mr Jahnige.
- 43a *Seminar in the Politics of Metropolitan Areas.* Mr Gilbert.
- 43b *Seminar in Public Opinion and Pressure Groups.* Mr Green.
- 44a *Seminar in American Government: The Framework of Political Decision-Making.* Mr Green.
- [44b *Seminar in American Political Parties.*]
- 45a *Seminar in American Government.* Civil-Military Decisions in American Foreign Policy. Mr Rowe.

B. Comparative Government

- 36a *European Government.* The dynamics of political decision-making in England, France, and Germany. The emphasis will be upon comparative analysis, and students will have an opportunity to specialize in the country which most interests them. M T W 9. Mr Rothman.
- 37b *Governments and Politics of the Middle East and North Africa.* The traditional Islamic political system. The transformation of that system into a modern nation-state system under the impact of Westernization, nationalist ideology, and other social and economic forces. The structures and functions of present governments in the area. Internal tensions and conflicts within and the international relations of the region. How the Middle East affects and is affected by the East-West contest for power, with special reference to American foreign policy. F 4-6. Mr Abu-Lughod.
- 38b *The Commonwealth of Nations.* Its development and organization, and a study of political ideas and institutions in Canada, Australia, New Zealand, South Africa, India, Pakistan, Ceylon, and Ghana. Th F S 10. Miss Bates.

GOVERNMENT

- 39b *Government and Politics of the Soviet Union.* The role of Marxism-Leninism in Soviet politics; the role of a Communist Party in Soviet government and society; problems of industrialization; stages of development and political change; the balance of political forces and pressures in Soviet society. Th F S 10. Mr Sorenson.
- 45b *Seminar in Latin American Political Systems.* Mr Rothman.
- 47a *Seminar in Comparative Government: The Catholic Church and Politics.* Mr Rothman.
- 48a *Seminar in Comparative African Governments: South, Central, and East Africa.* Prerequisite, a course on Africa. Th 3-5. Miss Bates.
- 48b *Seminar in Comparative African Governments: West Africa.* Prerequisite, a course on Africa. T 4-6. Miss Bates.
- 49a *Seminar in Comparative Government: Soviet Politics in the Post-Stalin Era.* Mr Sorenson.

C. International Relations

211a is suggested background for all advanced courses.

- 211a *International Politics.* The context, practices, and problems of international politics. Lec. Th F S 10. Mr Marshall.
- 311b *International Organization.* The role and function of international organization in international relations. Achievements and limitations of regional and universal organizations such as NATO and the UN. Open to sophomores who have taken 211a. Th F S 10. Mr Overstreet.
- 312a *International Law.* The function of law in the international community, with special reference to the relation of law, politics, and social change. Th F S 9. Mr Rowe.
- 324a *Foreign Policy of the United States since 1898.* The growth of principles and practices of diplomacy from the emergence of the United States as a great power through its responses to new cold war problems. M T W 10. Mr Overstreet.
- 324b *Foreign Policy of the United States.* An analytical treatment: the internal organization and political setting of United States foreign policy formulation and control. The nature of problems facing American decision-makers today. M T W 10. Mr Marshall.

GOVERNMENT

411a *Seminar in International Politics.* Topic for 1965-66: Guerrilla War, Insurgents, and Intervention. Mr Marshall.

[411b *Seminar in International Politics.* Mr Rowe.]

412a *Seminar in International Relations.* Topic for 1965-66: The foreign policies of Asian governments. Mr Overstreet.

D. Political Theory

322a *Political Theory of the Nineteenth and Twentieth Centuries.* Hegel, Marx, Lenin, Hitler, Weber, Dewey, Freud, and others who have contributed to the development of political thought and social movements in the nineteenth and twentieth centuries will be subjected to systematic examination. Th F S 10. Mr Sorenson.

326 *History of Political Thought from Plato to the Present.* Greek political philosophy, the stoics, medieval theory, rise of the nation-state, and modern liberal, democratic, and totalitarian thought. Designed to provide a foundation for the understanding of current political problems. Th F S 11. Miss Kenyon.

327b *American Political Thought.* The evolution of the principles and practice of liberal democracy. American ideas concerning politics and government from the colonial period to the present. Th F S 10. Miss Kenyon.

328b *Political Analysis: Problems of Methodology.* An intensive consideration of questions that arise in the use of certain techniques for studying political phenomena. Mr Green.

[423b *Seminar in American Political Thought.*]

424b *Seminar in Contemporary Political Thought.* Miss Kenyon.

40b Directed reading required of seniors majoring in the Department. Members of the Department.

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in government. *Two or three hours.*

HISTORY, AND SOCIAL SCIENCE 495b *Interdepartmental Seminar in Economics, Government, History, and Sociology.* The Negro in America. Open to students by permission of the instructor. Mr Weinstein, Mr Elkins, Mr Rose.

GOVERNMENT

[50, 50a, 50b Research and Thesis.]

51, 51a, 51b Advanced Studies. *Two or three hours.*

[55a, 55b Seminar.]

THE MAJOR

Advisers: Miss Kenyon, Mr Overstreet, Mr Weinstein, Miss Bates, Mr Rowe, Mr Sorenson, Mr Green, Mr Gilbert, Mr Marshall.

Based on 11 *or* Social Science 192 and Government 11a, *or* in exceptional circumstances on an advanced course approved by the chairman.

Essential Courses: 326, 40b, and twelve semester hours in government.

Optional Courses: nine semester hours selected from government and approved courses in history, economics, sociology, philosophy, or religion.

Majors may spend the junior year abroad if they meet the college requirements as stated in the description of the Junior Year Abroad.

HONORS

Directors: For the Class of 1966, Mr Rothman; for the Class of 1967, Miss Kenyon.

Prerequisites: Government 11 *or* Social Science 192 and Government 11a, *or* in exceptional circumstances an advanced course approved by the director.

Minimum requirement: (1) one unit or seminar in junior and in senior year; (2) the unit in political theory or 326; (3) a long paper counting for six hours in the first semester of senior year; (4) directed reading counting for three hours in second semester of senior year.

Examinations: comprehensive examinations consisting of a general examination in political science, one in political theory, and one in a special field other than theory.

Units

Political Theory. For the year. Mr Weinstein.

Comparative Government. For the year. Mr Rothman.

International Relations. For the year. Mr Overstreet.

American Politics. For the year.

HISTORY

PROFESSORS:	<p>THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D., L.H.D.</p> <p>MAX SALVADORI, DR.SC. (POL.), LITT.D. (HON.)</p> <p>JEAN STRACHAN WILSON, PH.D.</p> <p>†KLEMENS VON KLEMPERER, PH.D.</p> <p>DONALD HENRY SHEEHAN, PH.D., <i>Chairman</i></p> <p>†CHARLES WHITMAN MACSHERRY, PH.D.</p> <p>ARTHUR MANN, PH.D.</p> <p>LOUIS COHN-HAFT, PH.D.</p> <p>NELLY SCHARGO HOYT, PH.D.</p> <p>†RAMÓN EDUARDO RUIZ, PH.D.</p> <p>STANLEY MAURICE ELKINS, PH.D.</p>
ASSOCIATE PROFESSORS:	<p>PETER D'ALROY JONES, PH.D.</p> <p>†GERARD ERNEST CASPARY, PH.D.</p>
ASSISTANT PROFESSORS:	<p>ALLAN MITCHELL, PH.D.</p> <p>RENÉE NEU WATKINS, PH.D.</p> <p>ROBERT MITCHELL HADDAD, PH.D.</p> <p>HAROLD LLOYD POOR, PH.D.</p> <p>HAROLD FRUCHTBAUM, PH.D.</p> <p>LIBERO MARX RENZULLI, JR., PH.D.</p>
INSTRUCTORS:	<p>*JOAN M. AFFERICA, M.A.</p> <p>ROBERT THOMAS McDONALD, A.M.</p> <p>ALLEN JAY GREENBERGER, A.M.</p> <p>ROBERT HAROLD LUCAS, A.M.</p>
FACULTY FELLOW:	<p>VIRGINIA E. PARKER, A.B.</p>
LECTURERS:	<p>¹ANDREW QUARLES BLANE, PH.D.</p> <p>MATILE R. POOR, A.M.</p> <p>LOUIS RUCHAMES, PH.D.</p>

The Group D requirement may be fulfilled in the following ways:

- a) With History 11, 12, 13—courses designed primarily for freshmen and sophomores.
- b) Freshmen and sophomores may secure exemption from the distribution requirement or be admitted to advanced courses (Grade II, including History and Social Science 293, or Grade III) by achieving a satisfactory grade on either the College Board Advanced Placement Examination or the departmental placement examination (the latter may be taken at the beginning of either the freshman or sophomore year). Special cases should be referred to the Chairman of the History Department.

HISTORY

- c) Juniors and seniors who have not yet fulfilled the distribution requirement in Group D may enter advanced courses (Grade II or III) after consultation with the Chairman of the History Department.
- 11 *General European History.* A survey of the history of Europe from the decline of the Roman Empire to the present. One lecture and two discussions. Lec. M T 2; dis. T W 9, 11, 12, 2, 3; Th F 9, 10, 11, 12. Mr Mitchell (*Director*) and members of the Department.
- 12 *The Ancient World.* A survey of Mediterranean civilizations to the fall of the Roman Empire. Two lectures and one discussion. Lec. M T 10; dis. W 9, 10, 3. Mr Cohn-Haft (*Director*) and members of the Department.
- 13 *History of the Americas.* A study of the Western Hemisphere from the age of discovery to the present: the European heritage, Indian cultures, the growth of colonial societies, imperial rivalries, the emergence of independence movements, and the evolution of the United States, Canada, and the Latin American nations in their world setting in the nineteenth and twentieth centuries. Lec. F S 9; dis. Th 9, 12. Mr Elkins (*Director*) and members of the Department.
- 23b *The Ancient Near East.* Introduction to the history and modern study of the earliest civilizations of the Near East, from the Sumerians and the Old Kingdom in Egypt to the Persian Empire. M T W 11. Mr Cohn-Haft.
- 24a *Early English History to 1603.* M T W 12. Mr McDonald
- 24b *English History since 1603.* M T W 12. Miss Wilson.
- 26a *The Medieval World from 300 to 1050.* M T W 11. Mr Lucas.
- 26b *The Medieval World from 1050 to 1400.* M T W 11. Mr Lucas.
- 27a *History of France from 1453 through the French Revolution.* Not open to students who have taken History 270b. Th F S 11. Mrs Hoyt.
- 27b *History of France from Napoleon to the Present.* Th F S 11. Mr Mitchell.
- 29 *Development of Western Economic Society.* Introduction to the study of economic development in Europe and the United States, eighteenth century to the present. Emphasis on evolution of basic economic institutions and behavior in a capitalist society, and economic problems and solutions evolved by society. M T W 2. Mr Jones, first semester; Mr Britt, second semester.
- 217a *History of Russia from the Kievan Period to 1855.* M T 4-5:30. Mr Blane.
- 217b *History of Russia from 1855 to the Present.* Th F S 10. Miss Afferica.

HISTORY

- 30a *Introduction to Historical Thought.* A study of the nature of historical problems and of the development of historical thought, based on selected writings of great historians. This course is designed to provide a basis for the work of the major. For juniors majoring in history and for seniors returning from the junior year abroad. One lecture and one two-hour discussion. Lec. M 3; sect. T 3-5 or Th 3-5. Mr Mann (*Director*) and members of the Department.
- 33a *Classical Greece.* Open to sophomores by permission of the instructor. M T W 12. Mr Cohn-Haft.
- 33b *The Roman Empire.* Chiefly a social and political study. Open to sophomores by permission of the instructor. Alternates with 314b. M T W 12. Mr McDonald.
- 35b *Intellectual History of Europe in the Middle Ages.* Recommended background, 11, 24a, 26a or 26b. M T W 10. Mr Lucas.
- 36 *Age of Renaissance and Reformation.* A study of the transition from medieval to modern times. M T W 9. Mrs Watkins.
- 37a *Problems of German History from 1815 to the Present.* A study of the growth and interaction of German intellectual, social, political, and economic forces within the framework of modern Europe. Th F S 10. Mr Poor.
- 38a *Intellectual History of Europe in the Eighteenth Century.* Main trends of thought in their relation to the political, social, and economic background. Th F S 9. Mrs Hoyt.
- 38b *Intellectual History of Europe in the Nineteenth Century.* Main trends of thought in their relation to the political, social, and economic background. Th F S 9. Mr Mitchell.
- 39 *Modern European History.* Political, economic, and social developments in Europe during the nineteenth and twentieth centuries. Recommended background, 11 or its equivalent. M T W 12. Mr Salvadori.
- [310a *Modern Britain.* Political, social, and intellectual history of Britain in the nineteenth and twentieth centuries. M T W 10. Miss Wilson.]
- 311a *England under the Tudors and Stuarts.* Political, social, and intellectual history of England in the sixteenth and seventeenth centuries. Alternates with 310a. M T W 10. Miss Wilson.
- [312a *Central Europe, 1815 to the Present.* A study of Central Europe in the nineteenth and twentieth centuries. The Habsburg Monarchy and its successor states.

HISTORY

- Problems of a multi-national area in an age of nationalism. The interaction between this area and the great powers. M T 4-5:30. Mr von Klemperer.]
- 313b *The Age of Absolutism*. Political, social, and economic problems of Continental Europe from 1648-1789. Th F S 10. Mrs Hoyt.
- [314b *The Byzantine Empire, 330-1453*. The main problems and characteristics of the Byzantine civilization and its relations, political, religious, and cultural, with the West. Alternates with 33b. M T W 12.]
- 315a *History of the Middle East*. From Muhammad through the reign of Sulayman the Magnificent. M T W 9. Mr Haddad.
- 315b *History of the Middle East*. From the death of Sulayman to the present. Prerequisite, 315a, or permission of the instructor. M T W 9. Mr Haddad.
- [316b *Modern Imperialism*. Rise and decline of empires, Western and Eastern, from the sixteenth to the twentieth century. Alternates with 413b. M T W 2. Mr Salvadori.]
- [318a *Introduction to Far Eastern Civilizations from the Beginning to 1500*. A survey of the political, economic, social, and cultural aspects of the civilization that developed in China; its extension and modification in Japan and other areas of Eastern Asia. Alternates with 425a. M T W 11. Mr MacSherry.]
- 318b *Introduction to Far Eastern Civilizations, 1500 to the Present*. A survey of Far Eastern civilizations during the period of limited contact with the West (sixteenth to eighteenth centuries) and the period of extensive Western influence (nineteenth and twentieth centuries). M T W 11. Mr Greenberger.
- 319a *American Political History from the Eighteenth Century to 1865*. W Th F 2. Mr Sheehan.
- 319b *American Political History from 1865 to 1945*. W Th F 2. Mr Sheehan.
- 320b *Economic History of the United States in the Twentieth Century*. The recent history of American economic life, studied in its social and cultural context. Evolution of the United States as a consumer society; the social problems of an expanding market economy; the reflection in the general culture of structural economic changes. Open to sophomores by permission. M T W 3. Mr Jones.

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- 321a *American Intellectual History, 1607-1865.* Early development of significant American ideas and social attitudes in relation to social and economic environment. Special emphasis on interchange of American and European ideas, agencies of intellectual life, and developments in religion, science, and the arts. Th F S 11. Mr Mann.
- 321b *American Intellectual History, 1865-1950.* The historical background of contemporary American thought, emphasizing the influence of industrialism, science, and religion. Th F S 11. Mr Mann.
- 325a *Latin-American History.* Mexico, Argentina, and Brazil in the nineteenth and twentieth centuries. An analysis of their political, social, and economic problems. Open to sophomores by permission of the instructor. Th F S 10. Mr Renzulli.
- [327b *Foundations of American Civilization.* A comprehensive analysis of the European origins of American civilization, and of the economic, political, social, and religious development of the colonies up to the era of the Revolution. M T W 11.]
- 328b *History of the South since the Reconstruction Period.* Th F S 10. Mr Elkins.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in history above Grade I. *Two or three hours.*

Undergraduate Seminars

These courses are limited to twelve students and are open with the permission of the instructors to seniors, and to juniors who have completed a second course in history. They will ordinarily meet each week for two hours, counting as *three*. In special cases honors students may be permitted to take a seminar for *six* hours credit.

- 43b *The Hellenistic Age.* Studies in the formative ideas and institutions of the period from Alexander the Great to the founding of the Roman Empire. T 4-6. Mr Cohn-Haft.
- 44b *Studies in the Later Middle Ages.* Mr McDonald.
- [45a *The Relations of Byzantium and the West.* To be given in alternate years.]
- 45b *The Encyclopédie and the Enlightenment.* Mrs Hoyt.

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- 46a *Spain under Charles V (1517-1556)*. To be given in 1965-66 only. Mr Avalle-Arce.
- 46b *The Renaissance in Italy*. Mrs Watkins.
- 47a *The Expansion of Europe Overseas 1500-1789*. M 4-6. Mr Mendenhall.
- [48a *Problems in the French Revolution*. Th 3-5. Mrs Hoyt.]
- 49a *Modern Britain*. Th 4. Miss Wilson.
- 410b *Modern Europe*. The analysis of a few major problems in Europe in the nineteenth and twentieth centuries, with particular attention to the growth and decline of free institutions. Open to students with adequate preparation in European history. Mr Salvadori.
- 411a *Karl Marx and His Critics*. A study of Marx's basic writings and of successive attempts by others to revise his social, political, and historical theories in the light of changing conditions in Europe since the mid-nineteenth century. W 7:30. Mr Mitchell.
- [411b *Modern Germany*. Th 4. Mr von Klemperer.]
- [413b *Capitalism and the Social Problem in Europe from the Industrial Revolution to the Crisis of 1929*. Alternates with 316b. Mr Salvadori.]
- [414a *Race, Nationality, and Religion in American History*. Th 4-6. Mr Mann.]
- 415a *Topics in Comparative Economic History*. W 7:30. Mr Jones.
- 415b *United States Foreign Policy since 1898*. The seminar will concentrate on the Far East and its problems. Th 4. Mr Sheehan.
- 416a *The Antebellum South*. Th 7:30. Mr Elkins.
- 420b *Inter-American Affairs*. Latin America and the United States since 1900. Selected topics. Th 7:30. Mr Renzulli.
- 424b *Selected Problems in the History of the Ottoman Empire*. Topic for 1965-66: The decline of the Islamic influence on Ottoman institutions in the nineteenth century. T 4-6. Mr Haddad.
- [425a *Problems in the Intellectual History of China and Japan*. Alternates with 318a. T 4. Mr MacSherry.]

HISTORY

HISTORY AND SOCIAL SCIENCE 495b *Interdepartmental Seminar in Economics, Government, History, and Sociology*. The Negro in America. Open to students by permission of the instructor. Mr Weinstein, Mr Elkins, Mr Rose.

Graduate Seminars

50, 50a, 50b Research and Thesis. *Six hours*.

51, 51a, 51b Special problems in advanced work in history, arranged individually with graduate students. *One hour or more*.

55a *Modern European History*. Mr Salvadori.

55b *American History*. Mr Jones.

Adviser of graduate study: Mr Mann.

THE MAJOR

Advisers: Mr Sheehan, Mr Mann, Mr Cohn-Haft, Mr Elkins, Mr Jones, Mr Mitchell, Mrs Watkins, Mr Haddad, Mr Poor, Miss Afferica.

Based on 11, 12, 13 or an equivalent course. Students who have been exempted from the distribution requirement in Group D are expected to take six semester hours in the Department in their first two years if they wish to major in history.

Essential Courses: 30a and eighteen hours in history.

Optional Courses: nine semester hours in history or in related departments.

The senior examination will assume some preparation, at least three semester hours, in each of the following fields: Europe before 1700; Europe after 1700; American history.

Major programs may be arranged to correlate work in history and related subjects in such broad fields as medieval or Renaissance studies, modern Europe, or area studies (*e.g.*, the Americas).

Attention is called to the Interdepartmental Major in American Studies and to the Classics Major in Ancient Studies.

Adviser for the Junior Year Abroad: Mrs Hoyt.

HONORS

Director: Miss Wilson.

Prerequisites: two courses in history or one course in history and one in a field appropriately related to the honors program.

HISTORY

Program: the fixed requirements for all candidates will consist of a minimum of twenty-four semester hours in history, plus six semester hours in history or in appropriately related courses in other departments. The required twenty-four semester hours in history will include: (1) at least six semester hours in units or undergraduate seminars offered by the Department; (2) the unit, *History and Historians*; and (3), in the senior year, a long paper.

Examinations: (1) a general examination assuming some preparation* in each of the fields—Europe before 1700, Europe since 1700, American history; (2) an examination on historical literature and method; (3) a special examination in one of the following fields: ancient, medieval, early modern to 1789, Europe since 1789, American, Imperialism, and the Far East. Students will construct their programs with this distribution and emphasis in mind.

*i.e., at least a semester course devoted largely to the field concerned.

Units

History and Historians (introductory unit). A study of great historians and of the development of historical thought. First semester. M 7:30. Mrs Hoyt (*Director*) and members of the Department.

The Roman Republic. First semester. Mr Cohn-Haft.

Medieval Europe. First semester. Mr Lucas.

[*The Age of the Renaissance*. Second semester.]

Western Europe in the Seventeenth Century, or *England in the Sixteenth and Seventeenth Centuries*. Second semester. Miss Wilson.

[*Eighteenth-Century Europe*. Political, social, and economic problems. First semester. Mrs Hoyt.]

[*Modern Europe*. First semester. Mr von Klemperer.]

Modern Europe. Second semester. Mr Poor.

Race, Nationality, and Religion in American History. Second semester. Mr Mann.

Recent Interpretations of American History. First semester. Mr Sheehan.

[*American Party Politics in the Nineteenth Century*. Second semester. Mr Elkins.]

ITALIAN LANGUAGE & LITERATURE

ASSOCIATE PROFESSOR:	GIUSEPPE VELLI, DOTTORE IN LETTERE, <i>Chairman</i>
ASSISTANT PROFESSORS:	§ANNA M. MARTELLONI, DOTTORE IN LETTERE
	†FRANCA LOLLI, DOTTORE IN LETTERE
	FRANCO FERRUCCI, DOTTORE IN LETTERE
LECTURERS:	IOLE FIORILLO MAGRI, DOTTORE IN LINGUE E
	LETTERATURE STRANIERE, A.M.
	PAOLA OTTOLENGHI VELLI, A.B.

Italian 26 will fulfill both the foreign language requirement and the distribution requirement in Group A. The distribution requirement may also be fulfilled with six hours of a Group III literature course, with the permission of the Department.

It is recommended that students planning to major in Italian take History 11 and Philosophy 24. Those planning to spend the junior year in Italy should consult the chairman about preparatory courses.

11D or 12 is the prerequisite for 26 and all Grade III courses.

In all literature courses majors will be required to write in Italian; non-majors may do written work in English.

A. LANGUAGE

- 11 *Elementary Course.* Five hours. (Three class hours and two laboratory hours.) M T W 9, 12; Th F S 10; and two hours to be arranged. Mr Velli, Mrs Magri.
- 11D *Elementary Course* (covering the work of two years). *Six hours each semester.* M T W Th F 9, 11; two additional hours to be arranged for conversation in place of some preparation. (L) Mrs Velli.
- 12 *Intermediate Course.* Reading from modern Italian literature, with grammar and composition, followed by a survey of Italian civilization. Prerequisite, two units in Italian or 11. M T W 10. Mrs Velli. (L)
- 31a *Intermediate Composition.* Reading of and comment on contemporary, not exclusively literary, Italian texts with special emphasis on syntax and style. Italian-English and English-Italian translation. Prerequisite, 11D, 12, or permission of the Department. M F 4, W 5. Mr Ferrucci.
- 31b *Advanced Composition.* Continuation of the above with emphasis on composition. Prerequisite, 31a or permission of the Department. Hours to be arranged. Mr Ferrucci.

ITALIAN LANGUAGE & LITERATURE

B. LITERATURE

- 26 *Survey of Italian Literature.* Reading of outstanding works, with cultural and social background. T 7, Th F 5. Mr Ferrucci. (L)
- 36 *Dante: Vita Nuova, Divina Commedia.* M T W 11. Mr Velli.
- 37a *Selected Readings from "Rerum Vulgarium Fragmenta."* Emphasis on the culture and style of Petrarch. Reasons for and nature of Petrarchism. T W Th 4. Mr Velli.
- 37b *Boccaccio's Decameron.* Themes, structure, and narrative technique. The position occupied by the work in the Italian prose tradition. Hours to be arranged. Mr Velli.
- [38a *Machiavelli and Renaissance Thought.* Reading of *Il Principe* with ample selections from *Discorsi sopra la prima Deca di Tito Livio* and from literary works (*Mandragola, Belfagor, Lettere*). To be given in 1966-67.]
- [38b *Ariosto's Orlando Furioso and the Literary Ideals of the Renaissance.* Analysis of the work with reading of significant episodes. Tasso's *Gerusalemme Liberata and the Spirit of the Late Sixteenth Century.* Analysis of Tasso's lyricism and the pre-baroque character of his art. To be given in 1966-67.]
- 39a *Culture and Literature of the Eighteenth Century.* Selected readings from Vico, *Scienza Nuova*; Alfieri, *Tragedie*; Foscolo, *Ultime Lettere di Jacopo Ortis, Sonetti, Sepolcri*. Hours to be arranged. M 5 Th F 3. Mr Ferrucci.
- 39b *Italian Romanticism.* Leopardi: selected readings from his *Canti*, Manzoni: *I Promessi Sposi*, and selections from minor works. Hours to be arranged. Mr Ferrucci.
- [310b *Contemporary Literature from Verga to the Present.* Emphasis on postwar fiction and the particular position of the Italian writer of today, his attitude towards the general problems inherent in his craft: literary tradition and personal expression, language and dialect. To be given in 1966-67.]
- 40b Directed Reading and Review. Mr Velli, Mr Ferrucci.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Italian. *Two or three hours.* Members of the Department.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced Studies. *One hour or more.*
- Adviser of graduate study: Mr Velli.

MATHEMATICS

THE MAJOR

Adviser: Mr Velli.

Based on 11D or 12.

Essential Courses: 26; 31a or b; 36; 37a or b; 38a or b; 39a or b; 310b or completion of 39.

Optional Courses: closely related courses in allied fields such as history, literature, art, and music.

HONORS

Director: Mr Velli.

Prerequisite: 11D or 12.

Program: to be arranged with the director; three hours on an independent piece of work.

Examinations: one on the general field of literature; one on the field of specialization; one on linguistic preparation.

MATHEMATICS

PROFESSOR: NEAL HENRY MCCOY, PH.D., *Chairman*

ASSOCIATE PROFESSORS: BERT MENDELSON, PH.D.

ALICE B. DICKINSON, PH.D.

ASSISTANT PROFESSORS: DONALD ALASTAIR TRUMPLER, PH.D.

ROBERT JOHN FABIAN, PH.D.

LECTURER: BLANCHE JOANNE MONGER BAKER, PH.D.

Students planning to take courses in mathematics are expected to offer at least three units of mathematics for entrance; those planning to major in mathematics are advised to take a course in mathematics in each of the freshman and sophomore years. A course in astronomy or physics is also recommended. For additional preparation for honors work, see the honors program.

Students who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group F by taking Mathematics 12, 13 or 21.

12 *Mathematical Analysis*. Trigonometry; analytic geometry; elements of calculus. Prerequisite, three units of mathematics not including analytic geometry. Th F S 11. Mr Fabian.

MATHEMATICS

- 13 *Differential and Integral Calculus.* Prerequisite, at least three units of mathematics including analytic geometry. M T W 9, 10, 2; Th F S 9. Members of the Department.
- 21 *Differential and Integral Calculus.* Prerequisite, 12 or four units of mathematics including analytic geometry and at least a half-year of calculus. M T W 9, Th F S 10. Mr McCoy, Mr Mendelson.
- 22a, 22b *Differential and Integral Calculus.* Prerequisite, for 22a, 13; for 22b, 22a. M T W 2, Th F S 10. Mr Trumpler, Mr Fabian.
- 31a, 31b *Intermediate Calculus.* Topics from calculus including infinite series, functions of more than one variable, vectors, transformations, and line integrals. Prerequisite, for 31a, 21; for 31b, 31a or 22b. M T W 10. Mrs Dickinson.
- 32a *Differential Equations.* Theory and application of ordinary differential equations. Prerequisite, 22b or 31a. M T W 11. Mrs Dickinson.
- 33a, 33b *Modern Algebra.* An introduction to the most important concepts of modern abstract algebra. Prerequisite, for 33a, six semester hours of differential and integral calculus; for 33b, 33a. Open to sophomores by permission of the instructor. M T W 9. Mr McCoy.
- 34a *Projective Geometry.* Prerequisite, 12 or 13. M T W 12. Mr Mendelson.
- 35a *Theory of Computers.* Introduction to mathematical models of digital computers including Turing machines and finite automata, and topics in the logical design of switching circuits. Prerequisite, 33a or permission of the instructor. W Th F 2. Mr Fabian.
- [35b *Theory of Numbers.* Properties of integers including divisibility, theory of congruences, primitive roots, theorems of Fermat and Wilson. Prerequisite, 33a. M T W 11. Mr McCoy.]
- [36b *Differential Geometry.* Differential geometry of curves and surfaces in three dimensions. Prerequisite, 22b or 31a. M T W 2. Mr Mendelson.]
- 37b *Topology.* Point set topology, the real line, metric spaces, abstract topological spaces. Prerequisite, 22b or 31a. M T W 12. Mr Mendelson.
- [38b *Complex Variables.* Complex numbers, differentiation, integration, Cauchy integral formula, calculus of residues, applications. Prerequisite, 22b or 31a. Mr Mendelson.]
- 39b *Probability.* Mathematical theory of probability with an introduction to mathematical statistics. For students who have passed or are taking 21 or 22a. W Th F 2. Mr Fabian.

MATHEMATICS

40b *Seminar*. T 3-5. Mrs Dickinson.

41, 41a, 41b *Special Studies*. By permission of the Department for senior majors who have had twelve semester hours above Grade I in mathematics. *Two or three hours*.

43 *Advanced Calculus*. Open to juniors. Prerequisite, 22b or 31a. M T W 10. Mr Trumpler.

48 Honors paper, review, and coordination. For seniors.

50, 50a, 50b *Research and Thesis*. *Three or six hours*.

52a, 52b *Special Studies in Topology and Analysis*. *One hour or more*.

53a, 53b *Special Studies in Modern Geometry*. *One hour or more*.

54a, 54b *Special Studies in Algebra*. *One hour or more*.

Adviser of graduate study: Mr Mendelson.

THE MAJOR

Advisers: Mr McCoy, Mr Mendelson, Mrs Dickinson.

Based on 12 or 13.

Essential Courses: 21, 31a or 22a, 22b; 40b, and other courses in mathematics, making a total of twenty-one semester hours.

Optional Courses: other courses in mathematics.

Astronomy, courses above Grade I except 21b.

Physics, courses above Grade I.

Economics 28a, 38b; Chemistry 32; Philosophy 21a or b, 31b.

HONORS

Director: Mrs Dickinson.

Prerequisites: 22b or 31a.

Program:

Essential Course: 48.

Optional Courses: other courses in mathematics or courses in related fields chosen in consultation with the director.

Examinations: two will cover the general field of the major, one will test the field of specialization.

MUSIC

PROFESSORS:	JOHN WOODS DUKE DORIS SILBERT, A.M. ALVIN DERALD ETLER, MUS.B. GERTRUDE PARKER SMITH, A.M. †MARION DERONDE, A.B. IVA DEE HIATT, M.A., <i>Director of Choral Music</i>
ASSOCIATE PROFESSORS:	PHILIP KEPPLER, M.F.A. VERNON DETWEILER GOTWALS, JR., M.F.A., <i>Chairman</i> ROBERT MARTIN MILLER, MUS.M., LIC. DE CONCERT DOROTHY STAHL, B.MUS.
ASSISTANT PROFESSORS:	ADRIENNE AUERSWALD, A.M. EDWIN LONDON, PH.D. GEORGE THEOPHILUS WALKER, D.M.A. PHILIPP OTTO NAEGELE, PH.D.
INSTRUCTORS:	GEORGE JAMES BURT, M.F.A. ROBERT EDWIN GRONQUIST, B.MUS., M.A.
TEACHING FELLOW:	DEE ANN DAHL, A.M.
LECTURERS:	LYNN CLARKE MEYERS, B.S. WILLIAM CHRISTIAN SCHULTZ, MUS.B. ERNST WALLFISCH LORY WALLFISCH

The courses in music which may be taken to fulfill the distribution requirement in Group B are 13, 23. However, if a student is considering a major in the Department, 13 is not advised.

Physics 26a, *Musical Acoustics*, may be included as Music 26a for credit in the music major.

A. Composition

- 11 *Elementary Course.* Basic materials of composition. The first semester deals with the elements of music through ear-training, sight-singing, and listening. The second semester continues with exercises in one-, two-, and three-part writing. One lecture, two discussions. *Two hours each semester.* Lec. T 3; dis. M W 3; W Th 2; Th F 9. Mr Etler, Mr Miller, Mr London, Mr Burt.
- 21 *Intermediate Course.* Materials of composition, continued. Exercises in four-part writing. Prerequisite, 11 or 12. Three class hours. *Two hours each semester.* M T W 12; M 4, Th F 11. Miss Smith, Mr Walker.

MUSIC

- 24 *Keyboard Harmony.* The student must have passed or be taking 21 (or 22).
One hour each semester. One class hour to be arranged. Miss Smith.
- 33 *Composition in Small Forms.* Prerequisite, 21 or 22. Mr Burt.
- 42 *Composition for Small Instrumental Groups.* Prerequisite, 33. Mr Burt.

B. Literature

Unless otherwise stated the prerequisite for Grade III courses in this division is 23.

- 13 *An Introduction to Music.* First semester, observation of the elements of music and musical form. Second semester, a consideration of musical styles from the Renaissance to the present. No previous training in music is required. This course may not be taken as the theory requirement by students receiving credit for practical music. M T 4 and a third hour to be arranged for sections. Mr Keppler.
- 23 *General History of Music.* Prerequisite, 13, 11 or 12. W Th F 3. Miss Silbert.
- 30a *Tonal Organization.* Practice in analytical techniques. Prerequisite, 21 or 22. M T W 11. Mr Etler.
- 34b *Solo Song.* Study of representative works from 1800 to 1925. M T W 10. Miss Smith.
- 35b *Symphonic Developments in the Nineteenth Century.* W Th F 3. Mr London, Mr Wallfisch.
- 36a *Baroque and Classical Opera.* The Venetian and Neapolitan Schools; Italian opera in Germany and England; operatic reform and comic opera in the eighteenth century. M T W 9. Mr Keppler.
- 36b *Nineteenth-Century Opera.* Main trends in Romantic opera with emphasis on Verdi and Wagner. Qualified students may be admitted on the basis of 13, 11, or 12 by permission of the instructor. M T W 9. Mr Keppler.
- 37b *Bach, Handel, and Their Contemporaries.* Study of representative vocal and instrumental works. M T W 11. Mr Gotwals, Mr Naegele.
- 38a *Haydn and Mozart.* M T W 10. Miss Silbert.
- 41, 41a, 41b Special Studies in the theory and literature of music. By permission of the Department for senior majors who have had twelve semester hours above Grade I in music. Two or three hours.

MUSIC

- 43a *Seminar in Sixteenth Century Music.* Th 2-4. Miss Smith.
- 44b *Seminar in Criticism of Music.* Miss Silbert.
- 45b *Modern Music.* Prerequisite, 30a. (Open to juniors by permission of the instructor.) T 7-10. Mr Etlar.
- [46b *Twentieth Century Music for Theatre.* A study of contemporary operas and ballets. Prerequisite, 30a. To alternate with 45b. W Th F 3. Mr London.]
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Special Studies.
- [52a *Precedents for Contemporary Procedures.* Open to seniors by permission of the instructor. Alternates with 53a. Mr Etlar.]
- 53a *Serialism.* Open to seniors by permission of the instructor. Alternates with 52a. Mr Burt.

C. PRACTICAL MUSIC

Courses are offered in the technique and representative literature of the piano, organ, harpsichord, voice, violin, viola, violoncello, flute, oboe, clarinet, bassoon, and French horn, and in instrumental ensemble and conducting. There are fees for all courses involving individual instruction and for the use of practice rooms. These fees are listed on page 189 of the *Catalogue*.

A student electing a course of Grade I in practical music (Section C) must also take one of the following music courses: 11, 21, 23. A student electing a course above Grade I in practical music must have taken or be taking at least an equivalent number of credit hours from Sections A or B unless she has already passed any two of the following music courses: 11, 12, 21, 22, 23. Exception to this rule may be made for honors students by permission of the instructor. Any course in Section C and its accompanying course in Section A or B may be counted together as one of the required number of three-hour courses, but each course will receive its full credit.

Except for Music 141 and Instrumental Ensemble, courses of Grades I and II normally require one hour of individual instruction and six hours of practice per week and receive *two hours* of credit each semester. Courses of Grade II when taken by juniors and seniors may require nine hours of practice per week and receive *three hours* of credit each semester.

Courses of Grades III, IV and V require one hour of individual instruction and nine hours of practice and receive *three hours* of credit each semester.

MUSIC

Qualified students may divide the course, combining two hours credit in one instrument with one hour credit in ensemble.

For juniors and seniors who are not music majors courses of Grades III and IV carrying *two hours* credit are available if taken above the minimum fifteen hour program. These students must have the permission of the instructor and a grade of B or above in the previous course.

No student in practical music will be admitted to a course above Grade I who has received a mark lower than C in the previous course in the same branch.

Before registering for any course in practical music the student must consult members of the Department at the College in May or during the days just previous to the beginning of the first semester.

STRINGED INSTRUMENTS, WIND INSTRUMENTS. Beginners are accepted in these branches on the basis of requisite musical aptitude. The instructor of the specific course should be consulted at the times indicated above. Candidates applying for scholarship aid in these courses must perform a piece of their own choice.

VOICE. Candidates for Music 141 will be expected to sing a song from *The Anthology of Italian Songs and Arias of the Seventeenth and Eighteenth Centuries* (G. Schirmer), or an English song of comparable quality.

PIANO. Candidates for Music 121 will be expected to play three pieces representing different styles in piano literature, one from each of the following headings: (1) a piece by J. S. Bach; (2) an allegro movement from a sonatina or sonata by Clementi, Kuhlau, Haydn, Mozart, or Beethoven; (3) a piece composed after 1825.

ORGAN. The prerequisite for organ courses is Music 121 or its equivalent.

Piano. 121, 222, 323, 424, 525. Mr Duke, Mr Miller, Mr Walker, Mrs Wallfisch.

Organ. 232, 333, 434, 535. Mr Gotwals.

Harpsichord. 303, 404. Prerequisite, 222 or 232 and permission of the instructor. Miss Silbert.

Voice. 141. This course will require two class hours, one half-hour lesson, and four hours of practice per week. *One hour each semester.*

242, 343, 444, 545. Miss Stahl, Miss Auerswald, Mrs Meyers.

Violin. 151, 252, 353, 454, 555. Mr Naegele.

Viola. 161, 262, 363, 464, 565. Mr Wallfisch.

MUSIC

Violoncello. 171, 272, 373, 474, 575. Mr Schultz.

Wind Instruments. 181, 282, 383, 484, 585. Mr Etler (*Director*), oboe; Miss Lichter, flute; Mr Lynes, clarinet; Mr Hebert, bassoon; Mr London, French horn.

Instrumental Ensemble. 191a, 191b, 292a, 292b, 393a, 393b, 494a, 494b. Open to qualified students who are studying their instruments. These courses require one hour lesson and three hours of practice per week. *One hour each semester.* Mr Naegele (*Director*), Mr Wallfisch, strings; Mr London, winds.

321a, 321b *Choral Conducting.* Study of various styles of choral music suitable for secondary schools and small groups. The course will be limited to sixteen students, by permission of the instructor. Prerequisite for 321a, 21 or 23; prerequisite for 321b, 321a. Two class hours. *One hour.* T 4-6. Miss Hiatt.

341b *English Diction for Singers.* Prerequisite, 242. Two class hours. *One hour.* Miss Stahl.

THE MAJOR

Advisers: Miss Silbert, Miss Auerswald.

Based on 11 or 12.

Essential Courses: 21 or 22, 23, 30a and nine semester hours above Grade II.

Students majoring in Music will be required to pass a general examination at the end of the senior year. The examination will test analytical, historical, and critical competence in dealing with music of various periods.

Optional Courses: related courses in other fields.

HONORS

Director: Mr Keppler.

Prerequisites: 11 or 12, 21 or 22, 23.

Program: students will fulfill the requirements of the major, present a paper, and take a minimum of nine semester hours in other departments. Apart from these requirements the program will be planned with the director to meet individual needs.

Examinations: one general comprehensive; one involving critical analysis on a limited field of concentration in literature or composition; one oral.

Honors Unit: second semester. Mr Keppler (*Director*).

Adviser for Graduate Study: Miss Smith.

PHILOSOPHY

PROFESSORS:	ALICE AMBROSE LAZEROWITZ, PH.D., LL.D., <i>Chairman</i> MORRIS LAZEROWITZ, PH.D. **DOROTHY WALSH, PH.D.
ASSOCIATE PROFESSORS:	†MURRAY JAMES KITELEY, PH.D. KENNETH STERN, PH.D.
ASSISTANT PROFESSOR:	ROSALIND EKMAN LADD, PH.D.
LECTURERS:	² ANITA DUNLEVY FRITZ, PH.D. ² LEAH JACOBS STERN, A.M.

The courses in philosophy which may be taken to fulfill the distribution requirement in Group C are 11, 22, 24, 33.

- 11 *Introduction to Philosophy.* Reading and discussion of some of the most important classic and modern philosophical works, to introduce the student to such topics as the relation of mind and body, sources of knowledge, freedom and determinism, nature and status of ideas. M T W 9, 10; Th F S 10, 11. Mrs Lazerowitz, Mr Stern, Mrs Ladd.
- 21a *Logic.* Introductory course, including study of common fallacies in reasoning, theory of the syllogism, and some modern developments. The course is intended to train the student in effective use of principles of correct thinking. Th F S 9; M T W 12. Mrs Lazerowitz, Mr Lazerowitz.
- 21b Repetition of 21a. Open to freshmen by permission of the instructor. M T W 11, 12. Mr Lazerowitz.
- 22b *Ethics.* Critical introduction to the major ethical theories: egoism, utilitarianism, the doctrines of Aristotle and Kant. Problems concerning the nature of goodness, moral knowledge, ethical reasoning, with readings from Moore, Stevenson, contemporary linguistic philosophers, and others. Th F S 9. Mrs Ladd.
- 24 *History of Philosophy from Thales to Kant.* Introduction to basic philosophical concepts, their origins and historical development. The course should be of use also to students majoring in other fields who wish to obtain an acquaintance with the history of ideas. M T W 9, 10; Th F S 9, 10. Mr Lazerowitz, Miss Walsh, Mrs Ladd, Mrs Fritz, Mrs Stern.

PHILOSOPHY

- 31b *Advanced Logic.* Postulate sets and their properties. Quantification theory. Foundations of mathematics and connected philosophical topics. Open to sophomores. Prerequisite, 21a or b. Th 4-6 and a third hour to be arranged. Mrs Lazerowitz.
- [32a *Metaphysics and Language.* Development of a new linguistic technique for the solution of philosophical problems. Its application to a selection of metaphysical theories which closely resemble scientific theories: theories of time, space, substance, causality and freedom, universals, a priori propositions. Prerequisite, six semester hours in philosophy. Th 2-4. Mr Lazerowitz.]
- [32b *Epistemology.* General explanation of a new linguistic technique for the solution of philosophical problems. Its application to epistemological and closely related problems: our knowledge of the external world, other minds, the mind-body problem, rationalism and empiricism. Prerequisite, six semester hours in philosophy. F 11-1. Mr Lazerowitz.]
- [33 *Aesthetics.* A discussion of problems. Topics dealt with include sensuous structure, emotional expression, symbolism, artistic meaning, truth, value, judgments of appraisal. M T W 9. Miss Walsh.]
- [34a *Continental Rationalism.* A study of the writings of Descartes, Spinoza, and Leibniz, the impact of Renaissance science upon them, and their influence on later thinkers. Given in alternate years. Prerequisite, 11 or 24. M T W 2. Mr Kiteley.]
- 35a *Kant.* A study of special topics in the *Critique of Pure Reason*, with consideration of their influence on later philosophers. Prerequisite, 24. F 11-1. Mr Lazerowitz.
- [36a *Plato.* Study of the major dialogues, with special emphasis on Plato's lasting contributions to philosophy. Given in alternate years. Open to sophomores. Prerequisite, 11 or 24. M T W 2. Mr Kiteley.]
- 37a *Systematic Philosophy.* Study of some systematic view through analysis of the work of a selected philosopher, classical or modern. To vary from year to year. For 1965-66: Spinoza. Prerequisite, 11 or 24. T 2-4. Mr Stern.
- 310b *American Philosophy.* Philosophical ideas of Edwards, Emerson, Royce, James, Dewey, and others, with attention to the connection of these ideas with current religious, political, and moral views. M T W 12. Mr Stern.
- 311a *Recent and Contemporary Philosophy.* Bradley, Russell, G. E. Moore. Prerequisite, 24. Th 4-6 and a third hour to be arranged. Mrs Lazerowitz.

PHILOSOPHY

- [311b *Recent and Contemporary Philosophy*. Wittgenstein, Austin, Strawson, Quine. Prerequisite, 24. Th 4-6 and a third hour to be arranged. Mr Kiteley.]
- 312b *Wittgenstein*. Certain views in the *Tractatus Logico-Philosophicus* and in *Philosophical Investigations*. Changes in the techniques of philosophy from Logical Positivism to Linguistic Analysis. Given in alternate years. Prerequisite, 11 or 24. T 4-6. Mrs Lazerowitz.
- 313a *The Concept of Mind*. A consideration of problems centering around the relation of mind and body, with particular attention to recent philosophical and psychological attempts to understand mental events in terms of behavioral processes. Prerequisite, six semester hours, or permission of either instructor. Th 1:25-3:20. Mr Brentlinger, University of Massachusetts, and Mr Tredwell, Amherst College.
- 40b Directed reading and papers for seniors majoring in the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in philosophy. *Two or three hours.*
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies arranged individually.
- [53 *A Systematic Study of Aesthetic Theory*. Miss Walsh.]
- [55a *Topics in Logical Theory*. With special reference to foundations of mathematics. Mrs Lazerowitz.]
- [56b *Contemporary Ethics*.]
- Adviser of graduate study: Mr Lazerowitz.

THE MAJOR

Adviser: Mrs Ladd.

Based on six semester hours in philosophy.

Essential Courses: twenty-one semester hours in philosophy, including 24 (unless used as the basis of the major) and 40b.

Optional Courses: related courses in other departments.

PHILOSOPHY

HONORS

Director: Mr Lazerowitz.

Prerequisites: any year course in philosophy of Grade I or Grade II; in addition 21a or b is advised. For other prerequisites for specific programs the director should be consulted.

Program: the requirements for all candidates will consist of a minimum of twenty-four hours in philosophy, plus six hours in philosophy or in a related field. The work in philosophy shall normally include two units or seminars.

Examinations: one on philosophical systems and history of philosophy; one on value theories and methodology; one on some special topic in philosophy or in a related field.

Units

Aesthetics. Six hours. First semester. Miss Walsh.

[*Logic (Theory of Probable Inference).* Three hours. Second semester. Given in alternate years. Mrs Lazerowitz.]

[*Ethics.* Three hours. First semester. Mrs Ladd.]

[*British Empiricism.* Three hours. Second semester. Mr Lazerowitz.]

Philosophical Analysis. Three hours. Second semester. Given in alternate years. Mr Lazerowitz.

PHYSICAL EDUCATION

PROFESSOR:	JANE ADELE MOTT, PH.D., <i>Director</i>
ASSOCIATE PROFESSORS:	ANNE LEE DELANO, A.M. EUNICE ELLEN WAY, PH.D. RITA MAY BENSON, M.S. IN H.P.E. ROSALIND SHAFFER DEMILLE, M.A.P.E.
ASSISTANT PROFESSORS:	CARYL MIRIAM NEWHOF, M.S. IN PHY. ED. MARTHA CLUTE, A.M. †GEORGIA MARIE SHAMBES, M.S. IN PHY. ED. SHIRLEY JOYCE PERRY, M.S. IN PHY. ED.
INSTRUCTORS:	PATRICIA MARIA PETERSON, M.S. SYLVIA JANE WILSON, M.S. IN PHY. ED. BARBARA JOYCE PORTER, M.ED WENDY JOYCE WILLETT, B.S. IN ED. CHRISTINE LOUISE WELLS, M.S. IN PHY. ED. ROSE MARIE LYON, M.S. CHIFRA HOLT ZACHARY, A.B. JEAN M. BOUTON, B.S. IN ED. SALLY DIANE DE SMIDT, B.A. JANET LORETTA FICKE, B.S. ISABEL WESTCOTT HARPER, A.B.

Physical Education 1a and b and 2a and b are required of all students in the first two years, the type of work being adjusted to the abilities, needs, and conditions of individual students. Continuous failure in these courses because of lack of interest or unexcused absences may result in the student's being requested by the President to withdraw from college.

All students who are in physical education classes or use the gymnasium are required to buy uniform outfits and shoes.

The Athletic Association, open to all members of the College, is under the direction of this Department.

A. Physical Education for Undergraduates

Requirements

1a, 1b *Basic Motor Skills, Dance, and Sports*.¹ Three periods of one hour each. Required for freshmen.

¹A small fee is charged for badminton, golf, sailing, skiing, tennis, and tenpin bowling. The riding fee covers the rental of horses.

PHYSICAL EDUCATION

Fall Term. One period, basic motor skills; two periods, swimming for those who have not passed the test, for others a choice of the following:

Archery, canoeing, crew, golf, hockey, riding, sailing, soccer, swimming, tennis volleyball. Members of the Department.

Adapted physical education. Miss Perry, Miss Wells.

Modern Dance. Mrs deMille, Mrs Zachary.

Folk Dance. Miss Perry.

Winter Term. One period, basic motor skills; two periods, a choice of:

Badminton, basketball, bowling, fencing, riding, squash, swimming, skiing, tumbling and apparatus. Members of the Department.

Adapted physical education. Miss Perry, Miss Wells.

Modern dance, continuing the fall courses and new sections. Mrs deMille, Mrs Zachary.

Folk Dance. Miss Perry.

Spring Term. Three periods, beginning swimming for those who have not passed the test; for others a choice of:

Archery, canoeing, children's games, crew, golf, lacrosse, riding, softball, swimming, tennis, track and field, volleyball. Members of the Department.

Adapted physical education. Miss Perry, Miss Wells.

Modern dance, continuing the fall and winter courses and new sections. Mrs deMille, Mrs Zachary.

2a, 2b *Dance and Sports*. Three periods of one hour each. Required for sophomores. Each term a choice of sports and dance as listed under the corresponding term for 1a and b.

A health consultation may be required for juniors and seniors, and any student who is falling below a standard which for her is reasonable must take work under the direction of the Department as follows:

3a, 3b Required for these juniors.

4a, 4b Required for these seniors.

Elective Classes and Sports

Juniors and seniors may elect work in any class listed above.

In addition there are riding trips under the Riding Club, open-hour swimming at the pool, Outing Club trips, week-end sailing, and special sports and dance events.

Courts and other equipment are available to all students when not being used by classes.

PHYSICAL EDUCATION

B. The Graduate Course for the Preparation of Teachers of Physical Education

This course is open to students of Smith College and to graduates of other colleges of approved standing. Students entering it will be given the opportunity to specialize in one of three fields: adapted physical education, the dance, or sports.

The course has as its basic plan classes in science and education as well as physical education. Smith College students may take science and education courses as undergraduates and in so doing will be able to fulfill the requirements for the degree in one year after graduation.

Properly qualified students from Smith and other colleges will be accepted for work toward the degree of Master of Science in Physical Education (M.S. in Phy. Ed.). Six semester hours of zoology, nine hours of education, and six hours in one of the following: bacteriology, chemistry, experimental psychology, mathematics, nutrition, physics, zoology should be offered as prerequisites. Students who have satisfactorily completed these courses and the equivalents of Physical Education 33a and b, 42a and b, and 43a and b may become candidates for the degree in the first year; other students normally require two years.

For further information write to Miss Mott, Scott Gymnasium, for the special booklet describing the course.

33a 33b *Adapted Physical Education*. The basic teaching materials for preventive and corrective phases of physical education as applied to individual developmental needs, and the study of the examining procedure. M T W 12. Miss Perry.

42a, 42b *Methods and Materials of Physical Education*. Elementary methods and materials for the teaching of dance, recreation, and sports. Required in the first year of students entering from other colleges who have not fulfilled the requirement elsewhere. Open to undergraduates only by permission of the Director of Physical Education. Prerequisite for 42b, 42a. Two lectures, six hours of practice. Members of the Department.

43a, 43b *The Anatomy (43a) and Physiology (43b) of Movement*. An analytical study of human motor activity. Prerequisites, Zoology 12 and permission of the Director of Physical Education. Two one-hour lectures and four hours of laboratory. Miss Perry, Miss Wells.

50, 50a, 50b Research and Thesis. *Three or six hours*. Miss Way.

51a, 51b Special Studies in (1) Research, (2) Administration, (3) Recreation, (4) Dance, (5) Adapted Physical Education, (6) Current Problems in Physical Education. Members of the Department.

PHYSICS

- 52a, 52b *Methods and Materials of Physical Education*. Advanced course offering opportunity for the student to specialize in the teaching of adapted physical education, the dance, recreation, or sports. Theory, two hours; practice, six hours. Members of the Department.
- 53a, 53b *Gymnastics and Basic Motor Skills*. One hour. Theory, one hour; practice, two hours. Miss Perry, Miss Delano.
- 54a [or b] *Elementary Measurement in Physical Education*. Miss Mott.
- 55a *Organization and Administration of Physical Education*. Miss Mott.
- 55b *History and Principles of Physical Education*.
- 56a, 56b *Directed Practice in the Teaching of Physical Education*. Miss Delano.
- 57a or 57b *Advanced Measurement in Physical Education*. History and methods of testing. Use of statistics and study of special problems. Miss Mott.

PHYSICS

PROFESSORS:

JESS J. JOSEPHS, PH.D., *Chairman*
**ADAM HENRY SPEES, PH.D.

ASSOCIATE PROFESSOR:

MELVIN SANFORD STEINBERG, PH.D.

ASSISTANT PROFESSORS:

WILLIAM BRUCE HAWKINS, PH.D.
MICHAEL W. RICE, PH.D.

INSTRUCTOR:

PHEBE HAZEL FERRIS COLLINS, A.M.

VISITING RESEARCH

PROFESSOR:

DOROTHY WRINCH, D.SC.

The offerings of the Department serve as preparation for limited positions in research laboratories, teaching in secondary school science, or graduate study. Those interested in any of these categories should see the adviser for the major, the secondary school teaching adviser, or the graduate study adviser, respectively, during the first half of the junior year, or earlier. Students interested in arranging a program directed toward graduate work in biophysics should see the adviser for the major early in the freshman year.

PHYSICS

Students planning to major in physics are advised to elect Physics 15 and a course in mathematics in freshman year. Students who have taken a Grade I course in mathematics or are taking Mathematics 13 or higher are urged to take Physics 15 rather than Physics 11.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Physics 11, 15, Physical Science 193.

Prerequisites for all Grade III courses: 15 or 11 and 211a or Physical Science 193 and 211a; Mathematics 22a and b or 31a.

11 *Fundamentals of Physics.* Introduction to selected phenomena and concepts of physics, including wave motion, dynamics, electricity, and atomic physics. Laboratory sessions will include demonstrations, experiments, and films. The connection between physical observation and theory is emphasized. One two-hour laboratory and three hours of lecture and class discussion per week. Lec. and dis. M T W 10; lab. W 2-4, Th 11-1, 2-4. Mr Hawkins, Mr Rice.

15 *General Physics.* Basic study of the motion of material bodies, wave motion, and electromagnetism; selected topics in atomic and nuclear physics. Three lectures and one three-hour laboratory period. Prerequisite, a Grade I course in mathematics; open to students taking Mathematics 13 or higher. Lec. Th F S 9; lab. M T W Th F 2. Mr Spees, Mr Steinberg, Mrs Collins.

21a, 21b *Modern Physics.* A review of classical concepts of matter and radiation; the particle and wave nature of matter and radiation, atomic structure, structure of solids, nuclear structure, elementary particles. Prerequisite for 21a, 11, 15, or Physical Science 193 and 211a, and a Grade I course in mathematics; for 21b, 21a. Th F 12 and one hour to be arranged. Mr Josephs, Mr Spees.

22a, 22b *Modern Physics Laboratory.* A laboratory course of experiments in modern physics. One three-hour laboratory period. *One hour.* T Th 2. Mr Rice, Mr Spees.

211a *General Physics Problems.* Prerequisite, 11 or Physical Science 193, and a Grade I course in mathematics. One class period; a three-hour laboratory period for those entering with 193 only. Hours to be arranged. Mr Spees.

26a *Musical Acoustics.* Production of musical sound, subjective aspects of musical hearing, pitch, loudness, timbre, the voice, instruments of the orchestra, synthesized and electronic musical sound, acoustics of rooms and auditoria, the recording and reproduction of sound. Lectures illustrated by many experimental demonstrations and slides. *One hour.* W 2:30-4. Mr Josephs.

PHYSICS

- 30a *Mathematical Techniques Selected for Usefulness in Physical Science.* Vector analysis, calculus of variations, Sturm-Liouville theory, special functions, Fourier transforms, complex integration. Prerequisite, 15 or equivalent. Th F 10 and one hour to be arranged. Mr Steinberg.
- 32a, 32b *Mechanics.* Newtonian dynamics of particles and rigid bodies, relativistic mechanics, Lagrangian and Hamiltonian methods. Waves in a string and in continuous media. Prerequisite, for 32a, 15 or equivalent; for 32b, 30a and 32a. M T W 12. Mr Spees, Mr Steinberg.
- 35a *Electricity.* The laws of electricity and magnetism; introduction to Maxwell's equations; electromagnetic waves. Electrical measurements. Three lectures and occasional laboratory periods. Prerequisite, 15 or equivalent. Lec. M T W 2; lab. T 3-5. Mr Rice.
- 35b *Electronics.* A semester of experiments in electronics, using transistors and vacuum tubes leading to some independent work. Prerequisite, 35a. Two three-hour laboratory periods. Th F 2. Mr Josephs.
- 36b *Optics and Spectroscopy.* Geometrical and physical optics, spectra and their origin, the vector model, spectroscopes. Two lectures and one three-hour laboratory period. Prerequisite, 21a. Lec. M W 3; lab. T 3. Mr Hawkins.
- 41a, 41b *Special Studies.* By permission of the Department for senior majors who have had twelve semester hours above Grade II in physics. *Two or three hours.* Members of the Department.
- 42b *Electrodynamics.* Electromagnetic waves, special relativity and Maxwell's equations, radiation by a point charge. Prerequisite 35a. Th F S 11. Mr Steinberg.
- 43a, 43b *Advanced Laboratory.* Selected experiments in atomic, nuclear, and solid state physics. Prerequisite, 32b and 35b. Two three-hour laboratory periods. Mr Rice.
- 45a *Introduction to Quantum Mechanics.* The formal structure of nonrelativistic quantum mechanics, with solution of some simple problems and an introduction to approximation methods. Prerequisite, 32b and 35a. Mr Hawkins.
- 45b *Modern Physics.* Topics in atomic, molecular, solid state, and nuclear physics, utilizing when possible the theoretical framework developed in 45a. Prerequisite, 45a. Mr Hawkins.
- [47a, 47b *Atomic and Molecular Spectra.* Theory and experiments including applications to other sciences. By permission of the instructor. One lecture and two three-hour laboratory periods.]

PHYSICS

- 48a *Statistical Physics*. Laws of heat and thermodynamics, kinetic theory of gases, introduction to statistical mechanics. Prerequisite, 32b. Mr Spees.
- 411a, b *Teachers' Course*. A one- or two-semester course for prospective teachers of secondary school physics. Mr Rice.
- 50, 50a, 50b Research and Thesis. *Three or six hours*. Members of the Department.
- 51a, 51b Special topics in such fields as physical optics, electricity and magnetism, statistical mechanics, plasma physics, solid state physics, and low temperature physics. *Two or three hours*. Members of the Department.
- 52a, 52b Selected problems assigned for investigation, experimental work, and discussion. *Three hours or more*. Members of the Department.
- 53a, 53b *Principles of Mathematical Physics*.
- [59a, 59b *Structure of Large Molecules*. Physics, chemistry, and geometry of biologically active molecules. *One hour or more*. Mrs Wrinch.]

Adviser for graduate study: Mr Steinberg.

Adviser for secondary school teaching: Mr Rice.

THE MAJOR

Adviser: Mr Josephs.

Based on 15, or 11 and 211a, or Physical Science 193 and 211a.

Essential courses: 21b, 22b, 30a, 32a, 32b or 36b, 35a, 35b; Mathematics 21 or 22b.

Optional Courses: other courses in physics and mathematics above Grade II, and courses in astronomy, chemistry, and geology.

In addition, a comprehensive examination in general physics will be required; each student is also expected to receive instruction in shop techniques in a two-hour period for one semester, and to participate in a journal club during the senior year.

HONORS

Director: Mr Josephs.

Prerequisites: Physics 21a, b, 22a, b, and Mathematics 21 or 22b. One or two other courses in mathematics, physics, or chemistry, and a reading knowledge of French, German, or Russian is advised.

PSYCHOLOGY

Program:

Essential Course: 30a. Program to be arranged in consultation with the Director. An honors paper and a review unit are also required.

Optional Courses: other physics courses above Grade II; advanced courses in other sciences, mathematics, or philosophy, chosen in consultation with the director.

Examinations: written examinations covering theoretical and experimental phases of the subject in classical physics, modern physics, and in the field of specialization.

PSYCHOLOGY

PROFESSOR:	ELSA MARGAREETA SIIPOLA, PH.D.
ASSOCIATE PROFESSORS:	DILMAN JOHN DOLAND, PH.D., <i>Chairman</i> JOHN CAMERON HAY, PH.D. BARBARA STEWART MUSGRAVE, PH.D. **ROBERT TEGHTSOONIAN, PH.D.
ASSISTANT PROFESSORS:	J. DIEDRICK SNOEK, PH.D. JOHN PAUL MCKINNEY, PH.D., <i>Director of Child Study</i>
TEACHING FELLOW:	DIANE V. BRIDGES, B.A.
LECTURERS:	² FREDERICK L. NEWMAN, M.A. **MARTHA TEGHTSOONIAN, PH.D. ² FRANCES C. VOLKMANN, PH.D.
RESEARCH ASSOCIATE:	JEAN CARL COHEN, PH.D.

Unless otherwise indicated, 11a is prerequisite for every further course.

Students who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group G by taking six hours from Section A, following 11a.

Students who plan to enter social work should consult their major advisers regarding desirable courses.

- 11a *Introduction to General Psychology.* A survey with emphasis on fundamental principles of human behavior and personality. Two lectures and one two-hour demonstration. M T 9, 10, W 9-11; M T 11, 12, W 11-1; T W 11, Th 11-1; T W 2, 3, Th 2-4; F S 9, 10, Th 9-11; Th F 2, 3, W 2-4. Miss Siipola (*Director*), Mr Hay, Mrs Musgrave, Mr Teghtsoonian, Mr Snoek, Mr McKinney.

PSYCHOLOGY

A. Experimental Psychology

- 11b *Introduction to Experimental Psychology.* Application of the experimental method to problems in psychology. Basic experiments in perception, motivation, learning, thinking. Lecture and laboratory, two two-hour periods. M W 9-11; M W 11-1; M W 2-4; T Th 9-11; T Th 11-1; T Th 2-4. Mr Hay (*Director*), Mrs Volkmann, Mr Newman.
- 33a *Comparative Psychology.* Experimental study of animal behavior, with emphasis on discrimination, motivation and modifiability. Open to sophomores. Prerequisite, 11b. Th F 3-5. Mr Hay.
- [33b A repetition of 33a. Th F 9-11.]
- 310b *Experimental Psychology: Visual Perception.* The study of factors influencing the perception of color, space, and motion, with special attention to the influence of learning and motivation. Open to sophomores. Prerequisite, 11b. M T 3-5. Mr Hay.
- 311b *Experimental Psychology: Social Behavior.* The experimental investigation of factors influencing perception, attitudes, and performance in social situations. Open to sophomores. Prerequisite, 11b. T W 11-1. Mr Snoek.
- 312a *Experimental Psychology: Human Learning.* The study of conditions influencing the processes of learning and memory; explanations of these processes in terms of current theories of learning. Open to sophomores. Prerequisite, 11b. Lec. Th F 10; lab. Th F 9; 11. Mrs Musgrave.

B. Developmental and Child Psychology

- [22a *Educational Psychology.*]
- 22b *Educational Psychology.* The educational process considered from the point of view of psychology. The application of psychological principles of development, motivation, and learning to contemporary educational problems. Section (a) No prerequisite. Open only to those who have not had Psychology 11a. M T W 12. Section (b) Prerequisite, Psychology 11a. Open to freshmen who have passed 11a. M T W 3. Mrs Musgrave.
- 23a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. M T W 9. Mr McKinney.
- 23b A repetition of 23a. Open to freshmen who have passed 11a. M T W 11. Mr McKinney.

PSYCHOLOGY

- 24b *Psychology of Adolescence*. Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. M T W 9. Mr McKinney.
- 44a *Child Psychology* (seminar). Selected problems, reports, and discussion. Prerequisite, 23a or b. T 7:30-9:30 Mr McKinney.

C. Personality and Clinical Psychology

- 27b *Psychology of Personality*. Study of the psychological organization of the adult personality, with emphasis upon individuality rather than generalized human nature. Basic concepts and theories of psychodynamics and of the development of adult personality-structure. M T W 11. Miss Siipola.
- 36a *Abnormal Psychology*. A study of neuroses, psychoses, and other personality disorders. Recent clinical and experimental findings will be stressed, particularly as they relate to major conceptions of mental illness. Open to sophomores by permission of the instructor. M T W 3. Mr Doland.
- 38a *Clinical Psychology*. A survey of methods and procedures used in a clinical setting, including appraisal of capacity, personality evaluation, and therapy. Open to sophomores by permission of the instructor. Th 2-4, F 2. Mr Doland.
- 38b *Mental Tests in Clinical Practice*. Supervised practice in administering, scoring, and interpreting standard clinical tests, with major emphasis on the testing of intelligence. A minimum of 15 hours of practice outside the laboratory. Open to sophomores by permission of the instructor. Th 2-4, F 2. Mr Doland.
- [46b *Seminar in Advanced Abnormal Psychology*.]
- [47a *Psychology of Personality* (seminar). Intensive study of depth psychology and of projective techniques of investigating personality. Prerequisite, 27b. Th 11-1. Miss Siipola.]
- 48b *Clinical Study of Children* (seminar). Clinical approaches to the understanding and treatment of the individual child. Areas include: emotional problems of the normal child as well as serious psychopathology; evaluative and therapeutic procedures utilized with children. Some observation in a clinical setting. Prerequisite, at least one of the following: 23a or b, 27b, or 38a. Open to qualified juniors and seniors by permission of the instructor. W 7:30-9:30. Mr Doland.

D. Social Psychology

- 25b *Social Psychology*. The study of social behavior considered from a psychological point of view. Topics include: socialization, prejudice, conformity, leadership, and the dynamics of group action. Open to freshmen who have passed 11a. Th F S 10. Mr Snoek.
- 29b *Psychology of Language*. A psychological interpretation of language based on empirical research. Topics include the role of grammar in thinking, indices of literary style, word association phenomena, meaning and metaphor, communication theories. M T W 10. Mrs Musgrave.
- [35a *Psychology of Attitudes and Opinions*. An investigation of factors influencing the formation and change of social judgments. The application of basic research methods of social psychology to this area. Topics include: communication, social conformity, public opinion, reference groups. Open to qualified sophomores by permission of the instructor. M T W 10. Mr Snoek.]
- 39a *Industrial Psychology*. Application of social psychological concepts to industrial organizations. Topics include: communication, supervisory practices, motivation to work, and human relations. Open to sophomores by permission of the instructor. M T W 11. Mr Snoek.
- 45b *Social Psychology* (seminar). Intensive study of group dynamics. Methods, theories, and problems. Reports and discussion. Open to qualified juniors by permission of the instructor. Prerequisite, 25b or 35a or permission of the instructor. T 7:30-9:30. Mr Snoek.
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- 30a *Theories and Systems in Psychology*. A discussion of some central problems in psychology, including their historical background, theoretical and systematic approaches, and contemporary formulations. Open to sophomores by permission of the instructor. M W 7:30-10. Mrs Teghtsoonian.
- 31a *Statistical Methods in Psychology*. Elementary descriptive and inferential statistics as applied to psychological problems. Open to sophomores. Prerequisite, 11b. M T W 12. Mr Teghtsoonian.
- 313b *Physiological Psychology*. The neural foundations of human and animal behavior. Emphasis will be placed on sensory and motor systems, and on the physiological bases of emotion, motivation, and learning. Th 11, F 2-4. Mrs Volkmann.
- 40b *Synoptic Course*. Th 7:30-9:30. Miss Siipola.

PSYCHOLOGY

41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in psychology. *Two or three hours.*

42a, 42b *Advanced Theoretical Psychology* (seminar). Critical study of current theories and examination of theoretical issues involved in selected problems.

1st semester (42a): *An Approach to Psychoanalytic Theory.* Open to students who have had 27a and have had or are taking 30a. Th 11-1. Miss Siipola.

2nd Semester (42b): *Selected Aspects of Contemporary Behavior Theory.* Primary emphasis will be on the field of learning. Open to qualified juniors and seniors by permission of the instructor. M 7:30-9:30.

50, 50a, 50b Research and Thesis. *Three or six hours.*

51a, 51b Advanced Studies. Similar to 41a and b. *One hour or more.*

52a, 52b *Seminar in Current Psychological Problems.* Also for senior honors students by permission. *One hour or more.*

56a *Abnormal Psychology.*

Theatre and Speech 58a *Experimental Phonetics.*

Adviser of graduate study: Mr Snoek.

THE MAJOR

Advisers: Members of the Department.

Based on six semester hours in psychology including 11a.

Essential Courses: twenty-one semester hours in psychology including 11b, 30a, and 40b.

Optional Courses: other courses in psychology and appropriate courses in other departments.

HONORS

Director: Mr Hay.

Prerequisite: 11b. Courses in zoology, sociology, physics, and mathematics are useful as background.

Program: 30a and 31a, twelve hours in other psychology courses, and six devoted to a long paper and review; nine additional hours in psychology or related subjects.

Examinations: one on general experimental and theoretical psychology; one on other fields of psychology; one a more specialized type.

RELIGION & BIBLICAL LITERATURE

PROFESSOR:	VIRGINIA CORWIN, B.D., PH.D.
ASSOCIATE PROFESSORS:	WILLIAM FRANCIS MAY, B.D., PH.D., <i>Chairman</i> †STEN HAROLD STENSON, PH.D. BRUCE THEODORE DAHLBERG, B.D., PH.D.
ASSISTANT PROFESSORS:	AURELIA TAKACS FULE, M.A., TH.D. DAVID BAILY HARNED, B.D., PH.D. JOCHANAN H. A. WIJNHOFEN, PH.D.
INSTRUCTOR:	†THOMAS SIEGER DERR, JR., A.B., B.D.
LECTURERS:	² PAUL SAMUEL SANDERS, M.A., S.T.M., TH.D. KENNETH HARTLEY SULSTON, B.D., PH.D. ² O. H. DE A. WIJESEKERA, PH.D.

The courses in religion which may be taken to fulfill the distribution requirement are, in Group A, 21; in Group C, 14, 28a and b, 31a and b, 34a and b, 35a, 35b, 37a.

- 14 *Introduction to the Study of Religion.* Teachings of contemporary Judaism, Roman Catholicism, and Protestantism. Religious interpretations of modern man's life and culture. For freshmen and sophomores only. Lec. Th 10. Dis. (for freshmen) M T 12, 2; F S 10; (for sophomores) M T 10, 2; Th F 2. Members of the Department.
- 21 *Introduction to the Bible.* The literature of the Bible as expressing the religion of the Hebrew prophets, lawgivers, historians, and poets, and the early Christians. M T W 10, 11; Th F S 9, 10. Miss Corwin, Mr Dahlberg, Mrs Fule.
- 23a *Religion and Social Responsibility.* Religion as the basis for social ethics. The individual and the communities: the norms of love and justice, examined in the sphere of family, marriage, divorce, population explosion, and race relations. M T W 3. Mrs Fule.
- 23b *Religion and Social Responsibility.* The bearing of ethical insights on the understanding of the state, on democratic and Marxist approaches to government and international affairs. M T W 3. Mrs Fule.
- 24b *Origin and Development of Buddhism in Southeast Asia (Theravada).* The teaching of the Buddha. Development of the Order: its philosophy, karma and re-

RELIGION & BIBLICAL LITERATURE

- birth, ethics for monks and laymen; the spread and contemporary influence of Buddhism in Southeast Asia. M T W 2. Mr Wijesekera.
- [25b *Greek New Testament*. Prerequisite, Greek 11, or the equivalent. Hours to be arranged. Miss Corwin.]
- 27b *Life and Teaching of Paul*. Prerequisite, 21, or by permission of the instructor. Offered in alternate years. M 4-6 and one hour to be arranged. Mr Dahlberg.
- 28a *Jewish Thought*. Biblical origins. Encounter with the Hellenistic world; split with Christianity. Formation of Talmudic Judaism. Jewish literature, philosophy, and mysticism under Islam and in Christian Europe. Impact of the Renaissance and Reformation. The Sabbathian movement. M T W 9. Mr Wijnhoven.
- 28b *Jewish Thought*. Moses Mendelsohn; enlightenment and Judaism. Hasidism. The Jewish emancipation and liberalism. The rise of Reform. Zionism and modern anti-Semitism. Rosenzweig, Buber, and contemporary trends in Judaism. M T W 9. Mr Wijnhoven.
- 29 *Biblical Hebrew*. Introduction to the Hebrew language. Elements of grammar with readings from narratives of the Old Testament. Offered in alternate years. M T W 2. Mr Wijnhoven.
- 31a *History of Christian Thought through the Middle Ages*. The early church fathers, Augustine, and early medieval theology. M T W 10. Mr Harned.
- 31b *History of Christian Thought since the Middle Ages*. Thomas Aquinas. The formative period in Protestantism. Development of Catholic thought. Key figures and movements to the present. M T W 10. Mr Harned.
- 32b *Religion in America*. Religious thought and institutions, and their influence on American culture. M T W 2. Mr Sanders.
- 34a *Contemporary Religious Thought*. Religion and the critics of religion in the nineteenth and twentieth centuries. Reinterpretations of faith. Readings selected from Schleiermacher, Hegel, Marx, Freud, Kierkegaard, von Balthasar, Bonhoeffer, Barth, and others. M T W 11. Mr May.
- 34b *Contemporary Religious Thought*. The doctrine of God in contemporary theology. The relation of the knowledge of God to self-knowledge. Readings selected from Bultmann, Richard Niebuhr, Tillich, neo-Thomists, Rahner, Berdyaev, Lossky, and others. M T W 11. Mr May.

RELIGION & BIBLICAL LITERATURE

- 35a *Hinduism and Buddhism.* Their philosophical and popular teachings about the divine, the world and man in the periods of greatest influence in India, China, and Japan. Ritual observances, and methods of inner personal development. Modern thinkers and movements. Th F 12; Th 2. Miss Corwin.
- 35b *Islam.* The formative period: Muhammed, the Quran, the law. The medieval mystics and philosophers. The role of Islam in the Middle East, among primitive cultures, and in India. Muslim reform and tradition in the modern world. To alternate with 39b. Th F 12; Th 2. Miss Corwin.
- 36a *The Individual in the Bible.* Problems of his self-understanding and obedience to vocation. His search for reconciliation with God and his fellows. Based on selected readings from the Bible and from modern descriptive Biblical theologians. M 4-6 and one hour to be arranged. Mr Dahlberg.
- 36b *The Religious Philosophy of Early Buddhism.* Its view of the world, of individuality, of mind as process, of the nature of emancipation. Prerequisite, relevant work in philosophy or religion, and by permission. M 7:30-9:30. Mr Wijsekera.
- [37a *Philosophy of Religion.* Major types of traditional western religious philosophy; emphasis on the problems of religious knowledge including proofs of God's existence, the concept of God, and questions of religious meaning and truth. Th F S 11. Mr Stenson.]
- [37b *Philosophy of Religion.* A study of contemporary philosophy of religion: analysis of religious language; the application of philosophical theories of signs to problems of religious meaning and truth; the nature of myth. Th F S 11. Mr Stenson.]
- 38b *Theology of Culture.* The creative act as religious affirmation and protest. The relation of belief to literature with illustrative readings from the contemporary period. M T 12, and one hour to be arranged. Mr Harned.
- [39a *Old Testament Theology.* Prerequisite, 21 or by permission. Mr Dahlberg.]
- [39b *Jesus in the Gospels.* A study of his teaching and mission based on the first three gospels. Prerequisite, 21. To alternate with 35b. Th F 12; Th 2. Miss Corwin.]
- [310 *Hebrew Religious Texts.* Readings with introduction and discussion of Hebrew texts from the Prophets, the Dead Sea Scrolls, and the Mishnah. Prerequisite, 29 or by permission. To alternate with 29. M T W 2. Mr Wijnhoven.]

RELIGION & BIBLICAL LITERATURE

- 313a *Problems in Theology*. A contemporary restatement of man as creature, man as sinner, the mystery of his suffering, and images for the work of salvation in Christian thought. T 4-6 and a third hour to be arranged. Mr May.
- 40b *Review of Problems in Religion*. Readings and discussions. T 4-6.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in religion. *Two or three hours*.
- [42a *Existentialism and Theology* (seminar). Studies in Kierkegaard, Nietzsche, and others. German and French existentialism and their influence on religious thought. By permission of the instructor. Th 4-6. Mr Stenson.]
- 43a *Christian Ethics* (seminar). Study of good and evil in Biblical literature and later Christian ethical thought: Augustine, Aquinas, Calvin, and some contemporary thinkers. Th 7:30. Mrs Fule.
- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 51a, 51b Advanced Studies. *One hour or more*.
- Adviser of graduate study: Mr May.

THE MAJOR

Advisers: Miss Corwin, Mrs Fule, Mr Harned.

Based on 14 or 21.

Essential Courses: twenty-one semester hours in religion, including 40b, 21 (for those who have taken 21 before the junior year, three additional hours in Biblical studies), and six hours in historical study of religious thought.

Optional Courses: other courses in religion and in related departments.

HONORS

Director: Mrs Fule.

Prerequisite: 14 or 21.

Program: six semester hours in courses or units in Biblical studies (three for those who have taken 21 before the junior year) and six in historical study of religious thought; in senior year one unit for the preparation of the paper and one for review. The greater portion of the work will be in units and courses in the Department, with work in related fields approved by the director.

Units will be conducted by means of regular conferences and special reading, and will often be planned in conjunction with existing courses.

RUSSIAN LANGUAGE & LITERATURE

Examinations: one in a selected field of concentration; one in the general field of the major; one oral, relating the work in the review unit to the field of the major.

Units

- Studies in the Old Testament.* First semester. Mr Dahlberg.
Studies in the New Testament. Second semester. Miss Corwin.
History of Christian Thought. Second semester. Mr Harned.
Judaism. Second semester. Mr Wijnhoven.
Religion, Ethics, and Society. First semester. Mrs Fule.
History of Religions. First semester. Miss Corwin.
[Philosophy of Religion.]
Contemporary Religious Thought. Second semester. Mr May.

RUSSIAN LANGUAGE & LITERATURE

- PROFESSOR: HELEN MUCHNIC, PH.D., *Acting Chairman for 1965-66*
 ASSISTANT PROFESSOR: †IGOR ZELLJADT, M.A., CAND. PHIL., *Chairman and Director of Language Studies*
 INSTRUCTORS: HÉLÈNE PALÉOLOGUE, LIC. ÈS. L.
 BORIS SOROKIN, A.M.
 LECTURER: NATALIJA KUPRIJANOW, LEHRERDIPLOM

Russian 33 will fulfill both the foreign language requirement and the distribution requirement in Group A. Russian 26a and b, 35a and b, or 36a may be taken to fulfill the distribution requirement in Group A.

A. Language

- 11 *Elementary Course.* Five hours. (Three class hours and two hours conversation and laboratory.) M T W 9, 11; M 4 or 5 and one hour to be arranged. *Three hours each semester.* Members of the Department.

RUSSIAN LANGUAGE & LITERATURE

- 11b *Elementary Course.* An intensive course covering the work of two years. Seven hours (five class hours, two laboratory hours). *Six hours each semester.* M T W Th F 9 and two hours to be arranged. Mrs Kuprijanow. (L)
- 21 *Intermediate Course.* Selections from Russian prose and poetry. General grammar review. Prerequisite, 11 or the equivalent. M T W 9, 10, and one hour to be arranged. Members of the Department. (L)
- [22a *Scientific Russian.* Reading and translation of scientific materials. Review of grammar. Mathematical and physical terminology. Prerequisite, 11. M T W 12.]
- [22b *Scientific Russian.* Reading and translation of scientific materials. Chemical, biological, economic, and geographic terminology. Prerequisite, 11. M T W 12.]
- 31 *Advanced Course.* Reading and discussion of texts taken from classical and Soviet literature, as well as current journals. Intensive practice in writing. Prerequisite, 21b, or 11b with permission of the instructor. M T W 12; W Th F 2. Mrs Kuprijanow. (L)
- 38a *Literary Analysis of Selected Works of Russian Literature.* Prerequisite, 31 or 33. Miss Paléologue. (L)
- 38b *Literary Analysis of Selected Works of Russian Literature.* Prerequisite, 38a. Miss Paléologue. (L)
- [43b *Seminar in the History of Slavic Languages.* A survey of the origin and development of the Slavic languages, their sounds, vocabulary, and grammatical forms from the beginning to the present. Lectures and analysis of selected, illustrative texts. Prerequisite, 21a and b or the equivalent or permission of the instructor. Mr Zelljadt.]

B. Literature

- 26a *History of Russian Literature.* From the beginnings to Pushkin. In translation. Alternates with 35a. M T W 11. Miss Muchnic.
- 26b *History of Russian Literature.* From Pushkin to Turgenev. In translation. Prerequisite, 26a. Alternates with 35b. M T W 11. Miss Muchnic.
- 33 *Literature of the Nineteenth Century.* Development of Russian realism. Study of some typical works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov, with discussion of important trends in social and aesthetic ideas which they represent. In Russian. By permission of the instructor. Prerequisite, 31, or the equivalent. Mr Sorokin. (L)

RUSSIAN LANGUAGE & LITERATURE

- [35a *Tolstoy*. In translation. Alternates with 26a. M T W 11. Miss Muchnic.]
- [35b *Dostoevsky*. In translation. Alternates with 26b. M T W 11. Miss Muchnic.]
- 36a *Russian Drama*. In translation. Study of the masterpieces of the Russian theatre from the beginnings to recent years, with emphasis on Gogol, Ostrovsky, and Chekhov. M T W 10. Miss Muchnic.
- 40b Review Unit. Hours to be arranged. Miss Muchnic.
- 41, 41a, 41b Special Studies in language or literature. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Russian. *Two or three hours*.
- 42b *Seminar in Soviet Russian Literature*. In translation. Poems, plays, and novels of selected Soviet authors considered as works of literary art and as illustrations of the social, economic, and political conditions of the period. T 4-6. Miss Muchnic.
- [46a *Pushkin and His Age* (seminar). Conducted in English; reading in Russian. Prerequisite, three years of Russian or the equivalent, and by permission of the instructors.]
- 50, 50a, 50b. Research and Thesis. *Three or six hours*.
- 51, 51a, 51b. Advanced Studies. Arranged individually.
- Adviser of graduate study: Miss Muchnic.

THE MAJORS

Advisers: Members of the Department.

Russian Major

Based on 21 or 21a, 21b.

Essential Courses: 26a, 26b, 33, 35a, 35b, 40b, History 217a, 217b.

Optional Courses: Other courses in Russian language and literature, Economics 319a, Government 39a, 47b, Humanities, History and Social Science 493b, other courses in related fields.

Major in Russian Civilization

Based on 11 and History 11.

Essential Courses: 21 or 21a, 21b, 26a, 26b, 35a, 35b, 40b, Economics 319a or Government 39a, 47b, History 217a, 217b.

SOCIOLOGY & ANTHROPOLOGY

Optional Courses: 31, 36a, 42b, further work in Russian language, Humanities, History and Social Science 493b, courses in related fields.

HONORS

Director: Miss Muchnic.

Prerequisites: 21 or 21a, 21b, 26a, 26b.

Program: 33, 35a, 35b, 36a, 42b, History 217a, 217b; at least twelve hours in units and seminars in the Department or in other departments within the field of correlation; a long paper in first semester of senior year to count for three hours.

Examinations: (1) on the whole field of Russian literature; (2) on Russian history; (3) on the field of correlation; (4) on language with translation from Russian into English, and from English into Russian, and a brief composition in Russian.

For students who choose honors in Russian Civilization an appropriate course in government or economics will be substituted for Russian 33 and the examination in language will be omitted

SOCIOLOGY & ANTHROPOLOGY

PROFESSORS:

NEAL BREAULE DeNOOD, PH.D.

ELY CHINOY, PH.D., *Chairman*

ASSOCIATE PROFESSOR:

PETER ISAAC ROSE, PH.D.

ASSISTANT PROFESSORS:

ELAINE CATHERINE HAGOPIAN, PH.D.

MPHIWA MBATHA, M.A.

MYRON GLAZER, PH.D.

LECTURERS:

GERALDINE L. CONNER, D.S.W., Associate Professor of
Social Work, Smith College School for Social Work

¹BEAU FLY JONES, M.A.

Among the courses which may be taken to fulfill the distribution requirement in Group E are 11a and either 11b or 23b.

Students planning to major or to do honors work in the department are advised to take introductory courses in one or more of the following fields: economics, government, history, philosophy, and psychology.

SOCIOLOGY & ANTHROPOLOGY

Students who plan to enter the field of social work should consult Miss Conner regarding desirable courses.

Grade III courses, except 312a, are open to sophomores with prerequisite and permission of the instructor.

The prerequisite for all Grade II and III courses, unless otherwise specified, is 11a.

- 11a *Introduction to Sociology and Anthropology.* Society, culture, and human behavior. Major institutions and forms of social organization: family, classes and ethnic groups, bureaucracy, property, power, religion, community. M T W 10, 11, 12, 3; Th F S 11. Lec. M 10, when scheduled. Mr Rose (*Director*), and members of the Department.
- 11b *Industrial Society.* Comparative and historical analysis of culture, social structure, and institutions in industrial societies, with material drawn chiefly from Great Britain, the Soviet Union, and the United States. The role of science and problems of work and leisure in modern society. Prerequisite, 11a. T W 10, 11, 12; Th F 11. Lec. M 10. Mr Chinoy (*Director*), and members of the Department.
- 21a *The City.* Problems of urban and suburban growth and development; social relations in the city; the social psychology of urban life. M T W 10. Mr Chinoy.
- 23b *Cultural Anthropology.* A study of the nature of culture and of selected aspects of culture: values, kinship, political systems, religion, and art. Based upon materials from tribal and peasant societies. M T W 11. Mr Mbatha.
- 31a *Methods of Social Research.* The logic and methods of social research and research techniques; their application to a specific project of current interest. Limited to twenty students. T 7:30-9:30 and one hour to be arranged. Mr Rose.
- 32a *Social Disorganization.* Theory of social disorganization; delinquency, crime, and related problems. Open also to students who have passed Psychology 11a. Th F S 9. Mr DeNood.
- 32b *Social Disorganization.* Family disorganization, social aspects of mental health, and related problems. Open also to students who have passed Psychology 11a. Th F S 9. Mr DeNood.
- 33b *Culture and Society in Sub-Saharan Africa.* Comparative analysis of selected traditional cultures in sub-Saharan Africa. Influence of climate, population, race, and pre-history. Problems of emergent Africa in the light of traditional forms of social life. M T W 3. Mr Mbatha.

SOCIOLOGY & ANTHROPOLOGY

- 34a *Culture Contact and Change.* Theories of social change; problems of emergent societies; the impact of Western culture on social structure, attitudes, and values. Cases selected from Africa and the Middle East. M T W 9. Miss Hagopian.
- 34b *Culture Contact and Change.* Similar to 34a. Materials drawn primarily from Latin America, with particular emphasis on the influence of the United States. M T W 9. Mr Glazer.
- 35b *Family and Society.* Structure and function of the family in various societies. Courtship, marriage, and family life in American society. M T W 12. Miss Hagopian.
- 37b *Minorities.* Social organization of a multi-racial and ethnically diverse society. Cultural and political problems in racial and ethnic relations. Racial nationalism. Internal organization of minorities in different settings. M T W 2. Mr Rose.
- 38b *The Sociology of Social Planning.* Study and analysis of social planning in health, education, recreation, welfare, housing, and community reorganization. Emphasis on twentieth-century developments in the United States. Th F S 11. Mr DeNood.
- 39a *Social Work in the American Community.* Development and theory of modern social services; the basic processes: casework, group work, and community organization. Prerequisite, the introductory course in economics, government, psychology, sociology, or Social Science 192. M 4-6. Miss Conner.
- 310b *Religion and Society.* Relation of religious organization and beliefs to social and cultural factors. Major sociological and anthropological interpretations of magic and religion. Selected problems in primitive and higher religions. M T W 10. Mr Mbatha.
- 311a *Class Structure in American Society.* Analysis of the American class system, with particular emphasis upon the nature and role of the middle class. The social and political consequences of economic stratification, status systems, and social mobility. M T W 12. Mr Chinoy.
- 312a *Selected Sociological Theories.* Critical analysis and application of theories of Durkheim, Sumner, Simmel, Cooley, Weber, Thomas, and Znaniecki. Th F S 11. Mr DeNood.
- 313a *Law and Political Organization in Traditional Societies.* Analysis of legal and political institutions in primitive societies and their relations to other cultural and social structures. M T W 3. Mr Mbatha.

SOCIOLOGY & ANTHROPOLOGY

- 314a *Folklore*. Traditional forms of folk expression (folktale, fairy tale, folksong, myths, legends, and proverbs) in their social and cultural setting. History and development of folklore analysis. Different approaches to folklore. Folklore in mass society. Children's culture as folklore. M T W 11. Mr Mbatha.
- 318a *Contemporary Latin American Society*. Social structure and social change in Latin America, particularly Mexico, Cuba, Peru, Brazil, Chile, and Argentina. The role of elites, the middle class, workers, peasants, and intellectuals; institutions affecting the role of these groups and their relations to each other. Open to students who have passed History 325a. M T W 2. Mr Glazer.
- 324b *Population Problems and Policies*. The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Prerequisite, completion of Group E distribution requirement. Open to sophomores by permission of the instructor. M T W 11. Mr Fox.
- [329b *Native Cultures of North America*. Cultures of the Eskimo and the major American Indian societies north of the Rio Grande, with some reference to Middle American high cultures. Survey of the history of native people on this continent since European settlement.]
- 40b *Problems of Scope and Method*. Theory and research in contemporary sociology and anthropology. For seniors majoring in the department. T 4-6. Mr Chinoy.
- 41a, 41b Special Studies. By permission of the Department for senior majors in the department. *Three hours*.

Seminars

- [42a *Language in Society and Culture*. An introduction to the science of language with particular emphasis upon how the structuring of language affects social relations and the interpretation of experience. The relation of language patterns to other culture patterns and to social structure. Symbolic language in religion and art.]
- 43b *Culture and Society in the Middle East*. Selected aspects of culture and society in the Middle East in their traditional and contemporary contexts. By permission of the instructor. Miss Hagopian.
- 45a *Subcultures and Social Movements in American Society*. Analysis of the nature, origins, and influence of subcultures, minority groups, and social movements in American society. Topic for 1965-66: Youth Culture. By permission of the instructor. M 4-6. Mr Rose.

SOCIOLOGY & ANTHROPOLOGY

47b *Social Disorganization.* Theories of social disorganization and their application to selected problems of crime and delinquency, family disorganization, and the social aspects of mental health. By permission of the instructor. M 4-6. Mr DeNood.

48a *Structure and Change in Modern Society.* Selected problems in the analysis of social stratification, elites, bureaucracy, primary groups, and the community. The role of these social structures in determining the character of modern society and culture. By permission of the instructor. T 4-6. Mr Chinoy.

[49b *National Character.* A study of attempts to describe and explain the predominant traits and manners of different peoples. The influence of such factors as climate, laws and political structure, religion, technology, and family life.]

HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology.* The Negro in America. Open to students by permission of the instructor. Mr Weinstein, Mr Elkins, Mr Rose.

51a, 51b Special Advanced Studies in such subjects as advanced theory, social organization and disorganization, culture contacts, problems of scientific methodology. *One hour or more.*

Adviser of graduate study: Mr Chinoy.

THE MAJOR

Advisers: Mr Chinoy, Mr DeNood, Mr Rose, Miss Hagopian.

Based on one of the following: 11a and either 11b or 23b.

Essential Courses: twenty-one semester hours in the department including 312a and 40b.

Optional Courses: other courses in the department; appropriate courses in allied departments.

Majors may spend the junior year abroad if they meet the college requirements as stated in the description of the Junior Year Abroad.

HONORS

Director: Mr Chinoy.

Program: units, seminars, and courses, including six hours in theory, preferably in junior year; three or six hours for a long paper in first semester of senior year; three hours for directed reading and review in the second semester; and fifteen additional hours in the department and related fields.

Examinations: three, in sociological theory and in selected fields of concentration.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

Units

The units will count normally for three hours each.

Basic Sociological Theory. First semester. Mr DeNood.

Current Problems in Social Theory. Second semester. Mr Chinoy.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

PROFESSOR:	JUAN BAUTISTA AVALLE-ARCE, PH.D.
ASSOCIATE PROFESSORS:	JOAQUINA NAVARRO, PH.D., <i>Chairman</i> ERNA BERNDT KELLEY, PH.D.
ASSISTANT PROFESSORS:	†CONSTANCE SHAW MAZLISH, PH.D. ANTHONY N. ZAHAREAS, PH.D. §JOSÉ ORTEGA, PH.D.
INSTRUCTORS:	QUENTIN CHAVOUS, M.A. ALICE RODRIGUES CLEMENTE, A.M. MARY S. BOUDREAU, M.A.
ASSISTANT:	SABRA MACLEOD, A.B.

Spanish 25 will fulfill both the foreign language requirement and the distribution requirement in Group A.

The following preparation is recommended for students who intend to take the Spanish or Latin-American major: courses in classics, either in the original or in translation; courses in other European literatures and history; a reading knowledge of another foreign language.

PORTUGUESE

- 21 *Elementary Portuguese.* Prerequisite, two years of Spanish or permission of the instructor. Hours to be arranged. Miss Clemente.
- 22a, 22b *Reading of Modern Portuguese Prose.* Prerequisite, 21. *One hour.* Mrs Kelley.
- 25a *Masterpieces of Portuguese Literature.* Prerequisite, 21. *Three hours.* Miss Clemente.
- 25b *Masterpieces of Brazilian Literature.* Prerequisite, 21. *Three hours.* Mrs Kelley.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

SPANISH

A. Language

- 11 *Elementary Course.* M T W 3; Th F S 9, 10, and one hour to be announced Members of the Department.
- 11D *Elementary Course* (covering the work of two years). *Six hours each semester.* M T W Th F 11, and one hour to be arranged. Mrs Kelley, Mrs MacLeod. (L)
- 12 *Intermediate Course.* Grammar review and reading of modern prose. Prerequisite, two units in Spanish or 11. M T W 10; Th F S 9. Members of the Department. (L)
- 13 *Grammar, Composition, and Reading.* Discussion of modern Spanish novels, plays, and poetry. Prerequisite, three units in Spanish. M T W 9; Th F S 11. Members of the Department. (L)
- 21a *Prose Composition.* Prerequisite, 11D, 12, 13. M T W 2. Mrs Kelley.
- 31b *Advanced Prose Composition.* Prerequisite, 21a. M T W 2. Mrs Kelley.
- 413a or 413b *Teachers' Course.* Review of Spanish grammar. Discussion of methods. Practice teaching. Prerequisite, 21a or 25. Mrs Kelley.

B. Conversation

- 14a, 14b *Conversation.* Two class hours. *One hour.* M T 3.
- 24b *Theoretical and Practical Phonetics.* Exercises in hearing and pronunciation. Open to students who plan to spend their junior year in Madrid and to others by permission. Two class hours. *One hour.*

C. Literature

The prerequisite for courses of Grade III in this section is 25.

- 25 *Reading of Modern Novels, Plays, and Poetry.* Prerequisite, four units in Spanish, 11D, 12, or 13. M T W 10, 11; Th F S 12. Members of the Department. (L)
- 34a *Masterpieces of Spanish Literature to the Beginning of the Sixteenth Century.* Mr Zahareas.
- 35b *Literature of the Spanish Renaissance.* Garcilaso de la Vega, Fray Luis de León, San Juan de la Cruz. M T W 3. Mrs Kelley.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

- 36a *Cervantes: Don Quijote.* Th 4-6, F 4. Mr Avalle-Arce.
- 36b *Drama of the Seventeenth Century.* Lope de Vega, Tirso de Molina, Calderón. Th 4-6, F 4. Mr Avalle-Arce.
- 37a *Nineteenth Century: The Romantic Period.* Th F S 9. Miss Navarro.
- 37b *Nineteenth Century: The Modern Novel.* Th F S 9. Miss Navarro.
- 38a *The Generation of 1898.* Mr Chavous.
- 38b *Spanish Literature from the Civil War to the Present.* Mr Chavous.
- 310a, 310b *South American Literature.* A study of representative works and authors from the colonial period to the present. Recommended background, History 13 or 325a. Th F S 11. Miss Navarro.
- 40b *Correlation of work in the major field.* (Two sections: Spanish major; Latin American major.)
- 41, 41a, 41b *Special Studies.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in Spanish. *Two or three hours.*

D. Graduate Courses

Students who wish to do graduate work in the Department are required to have a knowledge of Latin.

- 50, 50a, 50b *Research and Thesis.* *Three or six hours.*
- 51, 51a, 51b *Advanced studies in Spanish literature,* arranged in consultation with the adviser of graduate study, on subjects such as poetry of the Golden Age, Cervantes, Tirso and the Spain of his epoch, nineteenth- and twentieth-century prose.
- 52a or 52b *History of the Spanish Language.* Miss Navarro.
- 53a or 53b *Spanish Bibliography and Literary Methods.* Mr Avalle-Arce.
- 54a *Studies in Contemporary Literature.* A detailed examination of the main currents of Spanish contemporary literature emphasizing stylistic analysis.
- 56b *Studies in the Golden Age.* Traditionalism, Renaissance, Catholic Reformation: artistic and ideological problems, in reference to specific authors, works, and periods.

Adviser of graduate study: Mr Avalle-Arce.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

THE MAJORS

The Spanish Major

Adviser: Mrs Kelley.

Based on 11D, 12 or 13.

Essential Courses: from Section A, 21a and 31b, except for students who have been Juniors in Spain; from Section C, 40b and nine semester hours above Grade II normally so distributed as to include work in each of the three major periods.

Optional Courses: other Spanish courses above Grade I or courses in related departments.

The Latin-American Major

Adviser: Miss Navarro.

Based on 11D, 12 or 13.

Essential Courses: 310a, 310b, 40b; History 325a.

Optional Courses: 31b, any Grade III course from Section C; Portuguese 21, 22a and b; History 420b; Geology 32a; Sociology and Anthropology 34a (b); any course of Grade III or IV treating some phase of Latin-American civilization.

HONORS

Director: Mrs Kelley.

Prerequisites: 11D or the equivalent; 25 and, if possible, 21a and 31b.

Program:

Minimum requirement: one unit in language before second semester of senior year; a paper and review in senior year.

Optional courses or units to be selected in consultation with the director.

Examinations: (a) on the whole field; (b) on a special field; (c) on a great writer *not* of the special field.

THEATRE AND SPEECH

PROFESSOR:	WILLIAM DENIS JOHNSTON, M.A., LL.M., <i>Chairman</i>
ASSOCIATE PROFESSORS:	DENTON M. SNYDER, M.A. WILLIAM EDWARD HATCH, M.A. †CHARLOTTE H. FITCH, A.M., <i>Director of Speech</i> ROSALIND SHAFFER DEMILLE, M.A.P.E.
INSTRUCTORS:	CHIFRA HOLT ZACHARY, A.B. DOROTHY MYRICK RANDALL, M.A.
LECTURERS:	HELEN KRICH CHINYOY, PH.D. BEVERLY WILSON MAY, M.F.A.

The courses in Theatre which may be taken to fulfill the distribution requirement are, in Group A, 21a and b, 31a and b and, in Group B, 11.

A. Historical and Theoretical Courses

- 11 *Introduction to the Theatre.* Basic elements of drama in performance: the place and the occasion; the player; the director; the critic and the aesthetics of theatre; the audience and the theatre as art and as social institution. Theatrical styles and dramatic forms. M T W 11. Mrs Chinoy.
- 21a, b *History of Theatre.* Dramatic literature and the theatre arts from ancient times to the end of the nineteenth century, with emphasis on the theatre of England and Europe. First semester: Aeschylus to Shakespeare. Second semester: Corneille to Chekhov. Open to freshmen by permission of the instructor. M T W 3. Mrs Chinoy.
- 31a, 31b *Modern European Drama.* A study of European plays and playwrights from Strindberg to Brecht and Beckett. The experiments of Pirandello and of the Expressionists. Yeats and the Irish theatrical renaissance. The theatre of Giraudoux, Anouilh, and Genet, and of post-war Britain. M 4-6. Mr Johnston.
- 36b *American Theatre and Drama.* Evolution of an American style in theatre art and development of American drama, especially from 1914 to the present. M T W 12. Mrs Chinoy.
- 43a *Theatre Criticism.* Historical and analytical review of major theories and theorists dealing with dramatic literature and the theatre arts. Th 4-6. Mrs Chinoy.

THEATRE & SPEECH

- 46b *Shaw and Wilde.* A study of their dramatic works, with special emphasis on the interrelation of Shaw's plays and of this playwright's special contribution to the theatre. Th 4-6. Mr Johnston.

B. Theatre Practice

- 12a, 12b *Introduction to Dance.* Elements of dance, mime, and stage movement. One hour each semester. Th 2-4. Mrs deMille.
- 22a, 22b *Technique and Dance Composition.* Prerequisite for 22b, 22a. W 3, plus four studio hours. Mrs Zachary.
- 24a, 24b *Acting.* Exercises in concentration, imagination, and observation, in the study of the actor's approach to a role. Prerequisite for 24b, 24a. M 9-11, W 9. Mr Snyder.
- *25a, 25b *Mounting the Play.* A study of general structural features of theatres that bear upon the problems of mounting plays and the fundamental techniques and methods of production. M T W 12. Mr Hatch.
- 32a *History of Dance.* A survey with practice in selected period forms. Lec. T 4-6; studio hours to be arranged. Mrs deMille.
- 32b *Choreography.* Advanced course designed to emphasize individual and group creative expression through the medium of modern dance. Technique, original composition, and production. Prerequisite, 32a or 22a and b. Six studio hours, T 4-6; practice hours to be arranged. Mrs Zachary.
- 33b *Stage Lighting and Recorded Sound.* The design of stage lighting and application of the principles of light, color, illumination, and electricity to the stage. The theory and application of stage make-up, and the influence of stage lighting on make-up. The problem of sound in the theatre; the construction of sound effects, a study of sound systems, and the use of recordings and sound consoles. M T W 11. Mr Hatch.
- 34a, 34b *Performance.* Acting technique for the interpretation of contemporary and classical dramatic literature. Scenes and exercises. Prerequisite, 24a or b, or permission of the instructor. Th 10, F 10-12. Mrs May.
- *35a, 35b *Scene Design.* A study of pictorial organization for the support of action and characterization in the production of plays with emphasis on designing the space, the lighting, the costumes, and the decor. Prerequisite, 25a or b, or permission of the instructor. M T W 2. Mr Hatch.

*Six hours of laboratory work per week will be required during each of the four-week preparation periods for the major productions.

THEATRE & SPEECH

- 37a, 37b *Play Analysis and Creative Writing for the Dramatic Mediums: Theatre, Radio, and Television.* The student will either have practice in writing for one of these mediums or will study the theoretic elements of play structure and dramatic composition. Permission of the instructor is required for each semester. Hours for 37a, M W 3; for 37b, W 2-4. Mr Johnston.
- [39a *Radio.* History, principles, and techniques of radio production. Practical experience in selected types of radio programs, and in the use of recorded sound in other dramatic mediums.]
- [39b Repetition of 39a.]
- 40 *Presentation.* A general study of the art of theatrical presentation. The first semester consists of preparatory studies for special projects to be undertaken during the second semester. Prerequisites, a semester of acting and a semester of design or mounting the play, or by permission of the Department. Members of the Department.
- 44a, 44b *Directing.* The study and application of directorial techniques: dramatic interpretation, movement and grouping, stage business, casting and rehearsal. Prerequisite for 44a, a semester of acting or a semester of design; for 44b, 44a. T 3, Th 11-1. Mr Snyder.

C. Speech

- 13a *Voice Theory and Practice.* The historical, physiological, and phonetic bases of speech. Intensive work on the improvement of the individual speaking voice. Projects in various forms of oral communication. Individual conferences and recordings. M T W 10. Mrs May.
- [13b Repetition of 13a. M T W 11.]
- 23a *Voice Training.* A laboratory course adapted to individual voice and articulatory needs. Voice recordings. Open to freshmen by permission of the instructor. Two class hours. One hour. Th F 12. Mrs May.
- [23b *Voice Training.* M T 2. Miss Fitch.]
- 26a *Oral Interpretation of Literature.* Principles and techniques of oral interpretation. Study and oral presentation of selected literary forms. Recommended background, 13a or b. M T W 11. Mrs May.
- 26b Repetition of 26a. Open to freshmen who have had 13a. M T W 10.
- 27b *Voice Training.* Repetition of 23a. Th F 12. Mrs May.

THEATRE & SPEECH

- [28a *Speech in Public Affairs.* Principles of speech in three main areas: expository speaking, argumentation, and group discussion, and their practical application in the consideration of contemporary problems. M T W 10.]
- [28b Repetition of 28a. Open to freshmen who have had 13a. M T W 11.]
- [38b *Play Reading.* Theory and techniques of play reading as an art form. Study and presentation of selected plays from world drama. Recommended background, three semester hours preferably in 26a or b. M T W 12. Miss Fitch.]
- [414a *Speech for the Classroom Teacher.* The development of speech in the child, problems of defective speech, speech arts in the classroom, and the speech of the teacher. Voice recordings. Th F 12 and an hour to be arranged. Miss Fitch.]
- 414b *Oral Interpretation of Children's Literature.* A critical study of children's literature. The techniques of its oral interpretation. Practical experience in story-telling, reading aloud, and other forms of classroom presentation. Individual voice and speech practice. Open to juniors. M T W 12. Mrs May.

41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in theatre. Members of the Department.

Graduate Courses in Theatre and Speech

Inquiries concerning graduate work should be directed to the chairman of the Department.

50a, 50b Research and Thesis. *Three or six hours.* Members of the Department.

51a, 51b Advanced Studies arranged in consultation with the Department. *One hour or more.*

52a, 52b *Graduate Seminar.* *Three or six hours each semester.* Members of the Department.

58a *Experimental Phonetics.* The methods and subject matter of experimental phonetics and their application in speech teaching and speech correction, with special reference to the speech of the deaf. Prerequisites, a fundamental course in speech and Physics 11 or Psychology 11a, or permission of the instructor.

Adviser of graduate study: Mr Snyder.

THEATRE & SPEECH

THE MAJOR

Adviser: Mr Johnston.

Based on 11, and the passing of a required speech test which should if possible be taken before the second semester of the sophomore year.

Essential Course: 40 and twelve hours in theatre, in addition to 11, of which at least nine hours must be from Section A, and which must also include at least one semester in directing.

Optional Courses: other courses in theatre, or certain courses in other departments by permission of adviser.

A winter field trip will be arranged, if practicable, for majors and graduate students.

HONORS

Director: Mr Johnston.

Prerequisite: 11.

Program: The requirement will consist of

- (1) a course of study arranged for the junior and senior years with emphasis on techniques of production, dance, theatre history, or creative writing and research. Students may combine this basic work with courses in art, English, languages, music, speech, theatre, or any other field approved by the director.
- (2) An independent piece of work counting for six hours which may take the form of a thesis in the literature, art, or history of the theatre; an original play; creative work in design, acting, direction, or stagecraft.

Examinations: two written and one oral along the following lines: historical, theoretical and literary, technical.

ZOOLOGY

PROFESSORS:	*LOIS EVELYN TE WINKEL, PH.D. ESTHER CARPENTER, PH.D., D.SC. (HON.) ELIZABETH SANDERS HOBBS, D.SC., <i>Chairman</i> B. ELIZABETH HORNER, PH.D. GEORGE WARREN DE VILLAFRANCA, PH.D.
ASSISTANT PROFESSORS:	JOHN DUNNING DAVIS, PH.D. NATHAN SHAPIRO, PH.D. DOROTHY MERRILL, PH.D.
TEACHING FELLOWS:	JUDY DALE HALL, A.B. JO-ANN HAMMONS, M.S. ELLEN CHIEU-SUEY LIN, B.SC. ANN COOPER PLATZER, M.SC.
LECTURERS:	MARY HODGE LAPRADE, PH.D. PAUL HOWE SHEPARD, PH.D.

Among the courses which may be taken to fulfill the distribution requirement in Division III are 11, 12, Biological Science 191a plus three additional hours in biological science, and Biological Science 195.

Students planning to major in zoology are advised to take 11 in the freshman year. Organic chemistry should be taken before the junior year. Physics and mathematics through calculus are strongly recommended. See also preparation required for honors work.

A. Biological Science

- 191a *Cell Biology.* The fundamental properties of living cells are studied by means of representative examples from the plant, animal, and microbial kingdoms. Similarities and differences in structure and function among these cell types are examined both in lectures and laboratory work. Emphasis is placed on the experimental approach to problems of current interest in biology. Open to a limited number of freshmen with strong high school chemistry and biology backgrounds. Three lectures, one three-hour laboratory per week. Lec. M T W 11; lab. T 2-5. Mr Shapiro, Miss Tyrrell, Miss Merrill.
- [195 *The Living World.* An appreciation of life as exhibited in the form, function, inheritance, and evolution of living organisms, with special emphasis on the relationship of man to the equilibrium of nature. This course is not open to students who have had a laboratory course in biology. Lecture, three hours;

ZOOLOGY

laboratory, two hours. (This course is designed primarily for students who, at the time of entering, do not intend to major in science.) Lec. M T W 9; lab. Th 11-1, 2-4; F 9-11, 11-1.]

- 296a *Genetics*. A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite, a Grade 1 course in zoology, botany, or biological science. Open to students majoring in sociology or education by permission of the instructor. Two lectures, two two-hour laboratory periods. Th F 2-5. Mr Shapiro.

B. Zoology

- 11 *General Zoology*. Introduction to the study of animals, including the fundamental principles of biology. Laboratory work of the first semester includes a detailed dissection of the frog and the fetal pig; a few simple physiological experiments; use of the microscope and the study of cellular structure. The work of the second semester includes a survey of the variety of animal forms; dissection of representative types; and study of the fields of evidence for the evolution theory. Two lectures and two two-hour laboratory periods. Lec. Th F 2; lab. M T 9, 11, 2; Th F 9, 11. Mrs Hobbs, Miss Carpenter, Mr Davis, Mrs Laprade.
- 11b The second semester of 11 for students who have passed 12, Biological Science 191a, Biological Science 195, or Botany 11. Hours and instructors as in 11.
- 12 *The Anatomy and Physiology of Man and Other Mammals*. A study of the structure and functions of systems for support, motion, nutrition, reproduction, control, and integration. Two lectures and two two-hour laboratory periods. Lec. Th F 11; Lab. M T 9, 2; Th F 9, 2. Miss Te Winkel, Mr Shapiro, Miss Merrill, Mr Shepard.
- 22 *Comparative Anatomy of Vertebrates*. Evolution of vertebrate structures, as suggested by the study of modern and fossil forms. Prerequisite, 11, 12, or Biological Science 195; open to geology majors by permission of the instructor. Two lectures and two two-hour laboratory periods. Lec. M T 11; lab. Th F 9, 2. Miss Horner.
- 23b *Invertebrate Zoology*. A study of a wide variety of invertebrate animals with emphasis on their interesting features as individual animals, their relationships to each other, their use in biological and medical research, and their effect on man. Prerequisite, 11, 11b, or by permission of the instructor. Two hours of lecture, four hours of laboratory. Th F 9-12. Mrs Hobbs, Mr Davis.

ZOOLOGY

- 32a *Vertebrate Physiology*. A study of nutrition, digestion, circulation, metabolism, and excretion in man and other vertebrates. Prerequisite, 11 or 12 and Chemistry 11 or 12. Three lectures and three hours of laboratory. Lec. M T W 9; lab. M or T 2-5. Mr de Villafranca.
- 32b *Cellular Physiology*. A study of contractility, irritability, conductivity, permeability, and respiration at the cellular level. Prerequisites, 11 or 12 and Chemistry 11 or 12. Three lectures and three hours of laboratory. Lec. M T W 9; lab. M or T 2-5. Miss Merrill.
- 33b *Embryology*. A study of fertilization, cleavage, gastrulation, and the early development of organ systems in amphibians, birds, and mammals. Prerequisite, 22, or by permission of the instructor. Two lectures and four hours of laboratory. Lec. Th F 2; lab. Th F 3-5. Miss Te Winkel.
- 37a *Histology*. A study of animal tissues including their origin, differentiation, functions, changes with environment and with age, and their arrangement in organs. Prerequisite, 11, 12 or 22. Lec. or dem. Th F 9; lab. Th F 11-1. Miss Carpenter.
- 38 *Animal Taxonomy and Ecology*. Field and laboratory work on animal identification and habits. Lectures on early American naturalists, methods of nature study, and wild-life conservation. Prerequisite, a course of Grade I in zoology or botany or Biological Science 195. Two lectures and four hours of laboratory or field work. Lec. M T 2; lab. M T 3-5. Mr Davis.
- 39b *Ecology of Man*. Introduction to the elements of biology by which man as an evolving organism is related to his natural environment and to the principles of general ecology applicable to the study of man. M T W 11. Mr Shepard.
- 311a *Protozoology*. Free-living and parasitic protozoa and their relationships to other animals including man. Prerequisite, 11, 12, or Biological Science 195. Open to sophomores by permission of the instructor. Th F 9-12. Mrs Hobbs.
- 40b The development of current concepts in cell biology. Directed reading, oral and written reports. Required of all majors in zoology. Three hours. W 10-12. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in zoology. Two or three hours.

ZOOLOGY

- 42b *Molecular Biology.* The relationship of large molecules, especially proteins, to the structure and functioning of living systems. Prerequisite, 32a or b and Chemistry 21. Lec. Th F 10; lab. M 2-6. Mr de Villafranca.
- 43a *Development of Zoological Concepts.* An examination of concepts underlying modern zoological theory and research. The nature of such entities as life, organism, gene, species, and community are considered in evolutionary perspective. Open, by permission of the instructor, to students not majoring in zoology. Lec. M T W 11. Mr Shepard.
- [44b *Experimental Embryology.* A study of theories of fertilization, development, differentiation, and regeneration and their experimental basis. Prerequisite 33a. Two hours seminar, two hours of scheduled laboratory, and two hours of independent work. Lec. F 2-4; lab. Th 2-4. Miss Te Winkel.]
- [45b *Vertebrate Paleozoology.* A study of fossils to show the development of vertebrate life in the past, including consideration of changes in morphological level of development, composition of faunae, and environmental conditions. Prerequisite, 22, or by permission of the instructor. Lec. M T 12; lab. and three field trips to be arranged.]
- 46b *Animal Behavior.* Study of vertebrate and invertebrate behavior; orientation, navigation, and migration; activity rhythms; social behavior, with emphasis on problems of communication; learned and unlearned behavior as related to ecology and evolution. Open to Zoology majors and, by permission of the instructor, to Psychology majors. Two hours lecture-discussion and four unscheduled hours of independent laboratory work. Miss Horner.
- 47b *The Endocrine System.* A study of the development, histology, physiology, and changes with environment and with age of the glands of internal secretion. Prerequisite, 37a. Lec. or dem. Th F 9; lab. Th F 11-1. Miss Carpenter.

Research Courses

In these courses the work is individual and involves, in addition to the laboratory work upon which it is based, extensive reading and conferences with the instructor at stated intervals. A reading knowledge of French and German is desirable.

Two hours or more each semester.

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced Studies. *One hour or more.*

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[52a] 52b *Embryology*. Prerequisite, 33a. Miss Te Winkel.

53, 53a, 53b *Anatomy* (prerequisite, 22) or *Ecology* (prerequisite, 38). Miss Horner, Mr Davis.

54a, 54b *Recent Advances in Zoology* (seminar). Reading and individual reports. One hour each semester.

[55b *Invertebrate Physiology*. Prerequisite, 23b, or by permission of the instructor.]

[57a *Muscle Physiology*. A seminar in the physiology, cytology, and biochemistry of muscle. Prerequisite, 32b and Chemistry 21. Mr de Villafranca.]

58a, 58b *Histology and Cytology* (prerequisite, 37a); 58 *Experimental Cytology* (prerequisites, 37a and 47b). Miss Carpenter.

59 *Genetics*. Prerequisite, 36b or Biological Science 296a. Mr Shapiro.

510, 510a, 510b *Protozoology*. Prerequisite, 311a. Mrs Hobbs.

Adviser of graduate study: Miss Carpenter.

THE MAJOR

Advisers: Miss Te Winkel, Miss Carpenter, Mrs Hobbs, Miss Horner.

Based on six hours of zoology or biological science. If based on a course other than 11, 11b or 23b must be taken later.

Major requirements: Twenty-one hours in zoology above the basic course and 40b. There will be a general examination at the end of the senior year.

Optional Courses: courses in zoology; related courses by permission of the advisers.

HONORS

Director: Miss Horner.

Prerequisites: 11 or its equivalent, including a semester of invertebrate and a semester of vertebrate zoology; and Chemistry 21 or its equivalent. Normally these courses should be taken before junior year.

Program: to be arranged with the director and to include fifteen hours in zoology above Grade II plus three hours throughout the senior year on an individual problem, paper, and review.

Examinations: two will cover the general field, the third may be of a specialized character.

INTERDEPARTMENTAL MAJORS

AMERICAN STUDIES

Adviser to the major: Mr Aaron.

This major aims to bring into a single focus certain courses which explore the history of American culture in its broadest sense.

Based on History 11 (or another college course in European history approved by the adviser) and History and Social Science 293 or English 212.

Essential Courses:

Six hours chosen from History 319a, 319b, 320b, 321a, 321b, 327b, 328b, 414a, 415a, 415b, 416b or, with the permission of the adviser, other relevant courses in history.

Twelve hours from English 321a, 321b, Art 313a, 313b, Government 31b, 327b, Religion 32b, Education 36a, Philosophy 310b, Theatre 36b, or, with the approval of the adviser, relevant courses in government, economics, sociology, art, or English.

Six hours:

American Studies 31a. Contributions of particular fields to the study of American civilization as a whole. For juniors majoring in American Studies.

American Studies 40b. *Integrating course.*

Eighteen hours must be taken in one department. Prerequisites for the major may not be counted in this total, but courses not listed among the "Essential Courses" may be included.

It is recommended that students also elect courses dealing with European civilization.

HONORS

Director: Mr Aaron.

Honor students in American Studies must register for 31a and 40b. Their programs must include at least one unit or seminar in their junior and their senior years, the writing of a long paper, and comprehensive examinations.

GRADUATE COURSES

American Studies 55a, 55b. *Advanced studies.*

Adviser of graduate study: Mr Aaron.

ANCIENT STUDIES

For description of this interdepartmental major, see the Department of Classical Languages and Literatures.

INTERDEPARTMENTAL MAJORS

GERMAN CIVILIZATION

For description of this interdepartmental major, see the Department of Germanic Languages and Literatures.

THE LATIN AMERICAN MAJOR

For description of this interdepartmental major, see the Department of Spanish and Portuguese Languages and Literatures.

RUSSIAN CIVILIZATION

For description of this interdepartmental major, see the Department of Russian Language and Literature.

SCIENCE

The interdepartmental majors in science are designed as preparation for (1) professional schools such as medicine, public health, or nursing; (2) graduate study in those fields which involve a thorough knowledge of more than one science, *e. g.*, biochemistry, biophysics, or bacteriology; (3) laboratory work. Because it is advantageous to have basic training in chemistry, physics, zoology, and mathematics, it is urged that the student see the advisers of these majors as early as possible in freshman year.

Students planning to enter schools of nursing may consult Mrs Hobbs for information concerning entrance requirements for these schools.

BACTERIOLOGY

The Interdepartmental Major may be found in the offerings of the Department of Bacteriology and Public Health.

BIOCHEMISTRY

Advisers to the major: Mr de Villafranca, Mr Hellman.

Essential Courses: Chemistry 11 or 12, 21, 32, 42a; Zoology 12 or 22, 32a and b, 42b.

(Chemistry 42a and Zoology 42b will serve as the integrating courses in this major.)

Recommended Courses: Bacteriology 22, Chemistry 31b.

Optional Courses: courses in bacteriology, chemistry, zoology, physics, or mathematics.

HONORS

Directors: Mr de Villafranca, Mr Hellman.

Prerequisites, normally taken before junior year: Chemistry 11 or 12 and 21; Mathematics 12 or 13; Zoology 12 or 22; Physics 11 or 15.

INTERDEPARTMENTAL MAJORS

Program:

Requirements: Chemistry 11 or 12, 21, 32, 42a; Zoology 12 or 22, 32a and b, 42b; six hours throughout senior year on a problem, paper, reading, and review.

Recommended Courses: Bacteriology 22, Chemistry 31b.

Optional Courses: courses in bacteriology, chemistry, zoology, physics, or mathematics.

Examinations: one in chemistry, one in physiology, one selected according to the student's program.

PREMEDICAL SCIENCE

Adviser to the major: Mrs Hobbs.

Essential Courses: Chemistry 11 or 12, 21, Physics 11 or 15, Zoology 11 or Biological Science 195 or an equivalent, Premedical Science 40b. A course above Grade II in a Premedical Science, selected according to the program of the student, will be designated as 40b for the year 1965-66. A paper will be required.

Recommended Courses: Chemistry 31b, 32; Mathematics 12 or 13, Zoology 22, 32b, 33a, Biological Science 296a.

Optional Courses: other courses above Grade II in bacteriology, chemistry, mathematics, physics, psychology, sociology, or zoology that meet with the approval of the adviser.

Students may prepare for medical school by majoring in any department, if they include in their schedule courses considered to meet the minimum requirements for entrance to most medical schools. However, since medical schools differ in their requirements, it is advisable for students to decide in the spring of their freshman year which is the school of their choice, so that they may select their courses accordingly. It is helpful for those interested in premedical science to elect two sciences for their freshman year.

HONORS

Director: Mrs Hobbs.

Prerequisites normally taken before the junior year: essential courses in chemistry, physics, and zoology.

Requirements: Essential courses, plus other courses in chemistry, mathematics, physics, and zoology to be determined in consultation with the adviser, plus three hours throughout the senior year on a problem, paper, reading and review.

Examinations: one in chemistry, one in zoology, one selected according to the student's program.

GRADUATE STUDY

Smith College offers graduate programs leading to the degrees of Doctor of Philosophy, Master of Arts, Master of Arts in Teaching, Master of Education, Master of Education of the Deaf, and Master of Science in Physical Education. For foreign students, programs for a Certificate of Graduate Studies and a Diploma in American Studies are available. Ordinarily about one hundred students are registered for advanced instruction, which is available in most departments of the College and in various interdepartmental fields.

Smith College offers to its graduates a Master of Arts program at the University of Hamburg under the supervision of the Director of the Junior Year in Germany. Other colleges may arrange to have candidates for their own Master of Arts degree admitted to this program as guests.

Students at Smith College who have received a baccalaureate degree from a college or university of recognized standing are under the jurisdiction of the Committee on Graduate Study. They fall into two categories: (1) Graduate Students—those who present evidence of high scholarship, promise of satisfactory ability to pursue advanced study and research, and an adequate background in the field in which they intend to seek a degree; (2) Special Students—those college graduates who are receiving instruction in the college without reference to the attainment of an advanced degree. Such students need only the approval of the instructor(s) concerned and the Director of Graduate Study.

The degree of Doctor of Philosophy requires at least three years of advanced studies beyond the Bachelor's degree. At present programs leading to this degree are available in the Departments of Botany, Chemistry, Spanish, and Zoology. Although the requirements for the Master of Arts degree may be fulfilled in one academic year by well-prepared full-time students, most candidates find it more profitable to spend three or four semesters of study to attain the degree. The Master of Education degree may be obtained in one academic year by properly qualified students while the program for the Master of Arts in Teaching degree is normally completed in one academic year plus a summer session of six weeks. Ordinarily, two years of full-time graduate study will be required for students with a major in a liberal arts field to complete the requirements for the Master of Science in Physical Education degree.

FELLOWSHIPS AND SCHOLARSHIPS

Smith College offers several competitive fellowships and scholarships for which students who hold a Bachelor's degree or its equivalent may apply. Special scholar-

GRADUATE STUDY

ships are available for study in education and in physical education. Other fellowships are offered to students from foreign countries.

The science departments and the Departments of Education and Child Study, Music, and Theatre offer teaching fellowships and graduate assistantships for part-time graduate study combined with departmental assistance.

INFORMATION

Full information concerning the requirements for the various advanced degrees, admission, residence fees, and fellowships is given in the *Bulletin of Graduate Studies*. This bulletin, an application blank for admission, and other information may be obtained from the Secretary to the Committee on Graduate Study, Gateway House.

FOUR COLLEGE COOPERATIVE PH.D. DEGREE

A cooperative Ph.D. program has been established by Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts. When a student has been awarded a degree under this program, the fact that it is a cooperative Ph.D. degree involving Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts will be indicated on the diploma, the permanent record card and all transcripts, as well as on the Commencement Program.

The requirements for the degree are similar to those for the Ph.D. degree at the University of Massachusetts except for the statement relating to "residence." For the cooperative Ph.D. degree "residence" is defined as the institution where the thesis work is being done.

The following Departments are authorized to offer the cooperative Ph.D. degree: all the Departments in the Biological Sciences; Chemistry, French, Geology, German, Philosophy, Physics, and Spanish.

Students interested in this program should write to the Dean of the Graduate School, University of Massachusetts, Amherst, Massachusetts.

General Information

THE COLLEGE COMMUNITY

RESIDENCE

Community life and interests are an integral part of the education offered by Smith College. A large number of student organizations—of a civic, cultural, athletic, religious, political, social, pre-professional, or service nature—have the lively support of interested members of the student body to whom they give valuable experience. For some of these activities, such as the largely autonomous student government and the various campus publications, the students themselves are almost wholly responsible; for others, such as the formal musical activities, faculty direction is provided.

Life on the campus is also enriched by an extensive program of lectures and concerts which bring to the College distinguished speakers and musicians from this country and abroad. Additional lectures, concerts, recitals, plays, and debates by both the faculty and the students make for a full and varied calendar.

In support of these and other aspects of community life, the College emphasizes the importance of residence. Freshmen are allowed only a limited number of nights away from the campus in each semester. At the beginning of the sophomore year, the student herself assumes the responsibility for upholding the principle of residence. Within this framework, it has been possible for the faculty to grant to all students except freshmen the responsibility for their own class attendance.

Faculty and student legislation relating to residence and attendance is printed in full in *The College Handbook*.

THE HOUSES

The basic unit of the campus community is the college house which normally accommodates fifty to seventy students representing all four classes. Assignments to houses are made in the order of dates of application for admission to college, except when students are admitted from a waiting list. A student may move from one house to another twice during her college course, the order of assignment after the freshman year being determined by lot.

Except for a few smaller houses which are grouped together to make a single unit, each college house has its own living rooms, dining room, and kitchen, and

GENERAL INFORMATION

is in the charge of a Head of House who devotes full time to the administration of the house and the welfare of its members. In most of the houses there is also a resident member of the faculty. Social regulations governing life in the houses are administered by the Student Government Association. Every student is asked to contribute up to four hours a week of light service to the house in addition to taking care of her own room.

RELIGIOUS LIFE

The College provides opportunity for the development and expression of religious faith of all creeds. Services are held weekday mornings, except Wednesday and Saturday, in the Helen Hills Hills Chapel, and Sunday chapel services bring outstanding clergymen to the campus. Three voluntary religious organizations, the Christian Association (Protestant), Hillel Foundation (Jewish), and the Newman Foundation (Roman Catholic), offer programs of worship, study, and service, while cooperative educational and community service projects are undertaken by the Religious Association, of which every student is a member. The Chapel houses a Religious Center, with meeting rooms for these groups, and offices for the chaplain and his assistant. Northampton churches welcome students at their services and activities. Thus the opportunity is provided for students of each faith to strengthen their own convictions and to gain an understanding and appreciation of other traditions.

HEALTH

The Health Service is directed by the College Physician assisted by a medical staff of four full-time physicians, one half-time physician, and one part-time psychiatrist. The services of specialists are readily available in Northampton and Springfield for consultation in cases of unusual or serious illness. The Student Counseling Service, headed by the psychiatrist, provides counseling for students who are concerned about personal problems. As part of its emphasis on preventive medicine, the Health Service also exercises supervision of the health of all of the college service employees.

The Elizabeth Mason Infirmary with a capacity of ninety beds is a modern hospital, fully accredited by the Joint Commission on Hospital Accreditation. In addition to administrative personnel, its staff includes both a laboratory and an x-ray technician, a dietary supervisor, and eleven registered nurses employed full time. The ground floor of the Infirmary houses the outpatient offices of the medical staff. The Counseling Service has offices on the first floor in the East wing.

The College has arranged to cooperate with a reputable insurance company for a voluntary health and accident plan which protects the student over a twelve-month period, whether in residence at college or not. Students are urged to take this health

GENERAL INFORMATION

insurance policy which gives unusual protection in the special circumstances of a residence college.

In the interests of individual and community health, every student is expected to comply with the health regulations which are outlined in *The College Handbook*.

VOCATIONAL COUNSELING AND PLACEMENT

The Vocational Office serves alumnae and seniors who are seeking permanent positions, and underclassmen who wish employment for the summer. It provides information concerning specialized and professional training, arranges lectures and discussions on various vocations, and schedules interviews with employers who visit the campus. Letters of recommendation are collected from employers for the summer work of undergraduates; from faculty, heads of house, and members of the administration for seniors; and for additional study and employment of alumnae. All of these references are filed in the Vocational Office and are sent upon request to prospective employers or scholarship committees.

BUILDINGS AND GROUNDS

COLLEGE HALL, dedicated in 1875 at President Seelye's inauguration, is the main administrative building of the College. The tower houses the twenty-three bell Dorothea Carlile Carillon presented by her family as a memorial to Dorothea Carlile of the Class of 1922.

WRIGHT HALL, completed in September 1961 and named for former President Benjamin F. Wright, contains 58 faculty offices, eight seminar rooms, a language laboratory, a social science research center, a conference lounge, and a lecture hall seating 424.

JOHN M. GREENE HALL, given by John D. Rockefeller and other donors, is a large auditorium seating 2066 with additional seating space on the stage. The four-manual Austin organ of seventy stops, built in 1910, was presented by the Class of 1900 as a memorial to Cornelia Gould Murphy.

SEELYE HALL, given by friends of President Seelye, contains classrooms for over fifteen hundred students, the laboratories of the Department of Geology and Geography, and department offices.

HATFIELD HALL, formerly Hatfield House, became an academic building in 1926, providing needed seminar and class rooms.

THE WILLIAM ALLAN NEILSON LIBRARY, the gift of Andrew Carnegie, alumnae, and friends, was built in 1909. The library was enlarged in 1937, and again in 1962, when two additional wings were added to provide more stacks, and to make possible additional seminar rooms, carrels for students, and offices for staff and faculty.

GENERAL INFORMATION

The Smith College Library contains 485,000 volumes, this number including those books and pamphlets housed for greater convenience in the libraries of the art, music, and science buildings; 1500 current periodicals, and about 30 daily newspapers. The open-shelf system permits free access to all books.

THE HILLYER GALLERY, named for Winthrop Hillyer whose gift and bequest made this first art gallery possible, is equipped with studios and exhibition rooms, the Drayton Hillyer Art Library of 18,600 volumes, and collections of forty-two thousand photographs and eighty thousand slides. Graham Hall, a lecture hall seating 265, was added through the generosity of Christine Graham Long of the Class of 1910.

When the TRYON GALLERY was presented to the College by Mr and Mrs Dwight W. Tryon to house the Smith College Museum of Art, most of the paintings, prints, and other works of art were transferred to it from the Hillyer Gallery. The museum also contains galleries for loan exhibitions, which are arranged under the auspices of the Museum to supplement the permanent collections.

SAGE HALL, the music building named in honor of Mrs Russell Sage, contains classrooms, offices, practice rooms and listening rooms, the Werner Josten Music Library of seventy-five hundred books and twenty-five thousand scores, and a collection of twenty thousand records. It also has an auditorium seating 743, and is equipped with apparatus for motion pictures.

PIERCE HALL, named in honor of Professor Arthur Henry Pierce, is devoted mainly to the Department of Psychology.

LILLY HALL OF SCIENCE contains the lecture rooms, laboratories, and library of the Department of Physics. It was the gift of Alfred Theodore Lilly.

STODDARD HALL, the chemistry building, named in honor of Professor John Tappan Stoddard, contains a lecture room, library, laboratories, classrooms, offices, and modern research equipment.

BURTON HALL, named for President Burton, is equipped for the study of the biological sciences.

THE LYMAN PLANT HOUSE, the gift of Edward Hutchinson Robbins Lyman in memory of his mother, Anne Jean Lyman, includes greenhouses illustrating the vegetation of different climates, together with physiological and horticultural laboratories. Adjoining is the BOTANIC GARDEN designed for horticultural study, with sections to illustrate plant classification and habits. Arranged about the college grounds are smaller gardens and numerous varieties of native and imported trees and shrubs.

THE ALUMNAE GYMNASIUM, given by the alumnae and their friends in 1891, contains two bowling alleys and four squash courts. It is also the home of the Smith College Theatre. Classrooms and offices of the Department of Theatre and Speech are located in this building.

GENERAL INFORMATION

THE SCOTT GYMNASIUM, named in honor of Col. Walter Scott, contains a large floor used for volleyball, basketball, and fencing, a room for dance, two smaller gymnasiums for group gymnastics, a graduate student classroom and library, a swimming pool 75 feet by 23 feet, an undergraduate lounge, and department offices.

GILL HALL, MORGAN HALL, and FORT HILL HOUSE are used by the Department of Education and Child Study for the Smith College Day Schools. Gill Hall contains an assembly hall seating 170, with a large playground adjoining. A recently completed annex has increased the number of classrooms.

THE ELIZABETH MASON INFIRMARY was opened in 1919. Its name commemorates Elizabeth Mason Howland, a graduate of the Class of 1904 and a daughter of Frank H. Mason whose gift completed the fund raised by the Alumnae Association. The Florence Gilman Pavilion, added while Smith was host to the Naval Officers' Training School, was enlarged and completed in 1950-51. The result is an attractive, well-equipped, fireproof Infirmary with a capacity of ninety patients. In the fall of 1963 it was fully accredited by the Joint Commission on Hospital Accreditation. The ground floor of the Infirmary houses the outpatient offices of the medical staff.

THE ALUMNAE HOUSE, presented to the College by the Alumnae Association in 1938, contains offices for the Association staff, rooms for the use of the alumnae and the college, including a conference room seating 300.

DAVIS STUDENT CENTER, the student recreation building, contains a food shop, lounge, ballroom, and committee rooms for student organizations. It was named by the students in honor of President Davis.

THE HELEN HILLS CHAPEL, completed in 1955, provides a place for public worship and private meditation. The Clara P. Bodman Religious Center, located in the Chapel, contains a lounge and library, a choir room, and offices for the Chaplain and the campus religious organizations. The three-manual Aeolian-Skinner organ of thirty-nine stops, built in 1955, was presented by Mrs Hills as a memorial to her husband, James Mandly Hills.

THE RECREATION FIELDS, over thirty acres in extent, including the Allen Field, the gift of Frank Gates Allen, and the Athletic Field, afford opportunities for such sports as hockey, soccer, baseball, lacrosse, tennis, archery, volleyball, practice golf. A short distance away are the Riding Stables. The Field House was built in the summer of 1939 with funds given by the classes of 1938 and 1939, the undergraduates, the Athletic Association, and the Trustees. Besides storage space for athletic equipment, it contains a lounge, a kitchenette, a small meeting room, and dressing rooms. The Boathouse on Paradise Pond has accommodations for canoes, rowboats, sailboats, and rowing machines. In the Crew House are eight rowing shells and a large recreation room.

GENERAL INFORMATION

THE COLLEGE HOUSES

The thirty-four residence units provide living accommodations for approximately twenty-two hundred students.

The Old Campus: Chapin, Dewey (together with Clark, a small house adjacent to it), Haven (together with Wesley), the Hopkins group (three contingent houses), Hubbard, Lawrence, Morris, Park, Park Annex, and 150 Elm Street, Tenney (cooperative, for upperclassmen), Tyler, Washburn.

The Campus Northeast of Elm Street: Albright, Baldwin, Capen, Cutter, Dawes (the French House), Gillett, Lamont, Northrop, Parsons and Parsons Annex, Sessions, Talbot, Ziskind.

The Quadrangle Houses: Comstock, Cushing, Ellen Emerson, Franklin King, Gardiner, Jordan, Laura Scales, Martha Wilson, Morrow, Wilder.

The Graduate Houses: 8 Bedford Terrace, 30 Belmont Avenue.

FEES AND EXPENSES

THE ANNUAL FEE

The inclusive annual fee for tuition and residence for the academic year 1966-67 will be \$2,962; for the academic year 1967-68 it will be \$3,112. The full cost of instruction is not charged to the students since the annual fee represents approximately three-fourths of the cost to the College for each resident student. The difference is received from endowment income and gifts to the College. Increased endowed and current gifts have enabled the College to maintain its standard of quality instruction at a reasonable cost.

Statements for semester fees are mailed on or about September 10 and January 20. Checks should be made payable to Smith College and forwarded to the Office of the Treasurer. Payment is due within the first week of the semester.

PAYMENT PLANS

The College has no established plan for installment payment of semester charges. The cost of operating such a plan and the fact that the College is not staffed to handle it preclude the possibility of such an arrangement. The College participates in the Insured Tuition Plan and Education Funds Incorporated; both plans offer monthly payment plans to parents. Literature describing these plans is mailed to parents prior to the beginning of the academic year.

WITHDRAWAL REFUNDS

Faculty commitments and arrangements for education and housing are made in advance by the College for the academic year. These commitments, based on anticipated student enrollment, are not subject to change.

Students who notify the Registrar of their withdrawal prior to the opening of the College will have all charges cancelled.

After registration a student who withdraws will receive no refund for tuition or room. Board will be refunded on pro-rata basis.

DEPOSITS

A General Deposit in the amount of \$100.00 is required from each new student:

- 1) For students entering under the Early Decision Plan, deposit is payable by January 1.
- 2) For all other students, deposit is payable on or about May 5. (This is a one-time deposit which will be refunded following graduation, or upon withdrawal provided the Registrar has been notified in writing before July 1 for first semester or December 1 for second semester. Not refunded for new students in case of withdrawal before entrance.)

A Room Deposit, non-refundable, in the amount of \$100.00 is required from each incoming resident Freshman or upper class transfer student. This deposit is due on the same date as the General Deposit described above. This deposit will appear as a credit on first semester statements.

FEES AND EXPENSES

	<i>1st semester</i>	<i>2nd semester</i>
TUITION AND RESIDENCE FEE*	\$ 1,475.00	\$ 1,475.00
Board, room and tuition payable at the beginning of each semester		
LINEN FEE	\$ 12.00	
ACCIDENT AND SICKNESS INSURANCE	\$ 35.00	
Recommended but optional		
	<hr/> \$ 1,522.00	<hr/> \$ 1,475.00
OTHER FEES AND CHARGES		
<i>Fees for courses in practical music</i>		
Vocal or instrumental, for the College year:		
One hour lesson a week	\$ 225.00	
One half-hour lesson and two class hours	150.00	
One additional half-hour lesson taken for extra credit	75.00	
Courses in ensemble when given individually	50.00	
Use of practice room and a college instrument	15.00	
Use of practice room only, one hour daily	7.50	
Use of organs, one hour daily	35.00	
<i>Fees for classes in riding</i>	<i>plus 1 hour jumping</i>	
Fall 2 hours weekly	\$55.80	\$ 69.30
3 hours weekly	83.70	97.20
Winter Unlimited riding	85.00	98.00
Spring 2 hours weekly	37.20	46.20
3 hours weekly	58.50	67.50
<i>Materials for courses in technical art</i>		at cost
<i>Graduation fee</i>		\$ 15.00
<i>Infirmiry charge per day</i>		\$ 18.00
Each resident student may have Infirmiry care for six days each year without charge, but no more than two free days may be used for any one illness. Daily charge is covered by in- surance if such coverage is taken.		
<i>Preliminary Payments</i>		
Registration for application for admission	\$	15.00
Not refunded or credited		
General Deposit	\$	100.00
Room Deposit		100.00
(See preceding page for information concerning the above deposits.)		
FEE FOR NON-COLLEGIATE STUDENTS FOR EACH THREE-HOUR COURSE	\$	170.00
FEE FOR AUDITING, PER THREE-HOUR COURSE	\$	5.00
ESTIMATED ADDITIONAL EXPENSES:		
Books, each year, approximately	\$	125.00
Subscriptions and dues, student activities		25.00
Gymnasium outfit for physical education		30.00
Recreation and incidentals		from \$250.00 up

*Effective September 1966.

SCHOLARSHIPS & FINANCIAL AID

SCHOLARSHIPS

For students who are unable to meet their full expenses, the College offers scholarships ranging from \$200 to \$2500 and also student loans. The scholarships are made possible through endowed funds given to the College for scholarship purposes, by an annual appropriation from general income, and by annual scholarship gifts from alumnae clubs and other organizations. Awards are granted to applicants of marked scholastic achievement, academic promise, and demonstrated financial need.

Any scholarship granted to an entering student will normally be continued through her sophomore year if she maintains a good personal record with an academic standing of diploma grade, and proves financial need. At the completion of the sophomore year all awards will be reviewed by the Scholarships Committee. Awards will then be renewed only on the bases of demonstrated ability, total achievement, and continued need.

Applicants and their families are advised that when no scholarship aid is awarded for the freshman year there is small likelihood that a student will receive a scholarship in the following year, except in emergency situations. Applicants with a superior academic record for the first two years and continued need will be considered for upperclass awards.

Applications for financial aid for entering students must be sent to the Director of Scholarships and Student Aid by January 15th of the year of entrance. Students applying for admission under the Early Decision Plan should send their applications to the Director of Scholarships and Student Aid by October 1st of the senior year at school.

Scholarships of \$1350 are granted at the discretion of the Trustees to undergraduates who have been residents of Northampton or of Hatfield for at least five years directly preceding the date of their admission to college, provided they are able to satisfy the full requirements of admission. Such grants are continued through the college course if the student maintains a diploma grade, conforms to the regulations of the College, and continues to be a resident of Northampton or Hatfield.

Scholarships of amounts up to full fees may be awarded to foreign students. Special applications should be directed to the Committee on Foreign Students.

The Huguenot Society of America awards scholarships of \$1000 at the recommendation of the College to students whose ancestry meets the requirements of the Society.

LOANS

Each financial aid award to regular students is usually a combination of scholarship grant and loan.

Student loans from College funds are available to all students in good standing with proven financial need. Smith College also participates in the National Defense

SCHOLARSHIPS

Education Act Loan Program. All applications for loans should be made to the Director of Scholarships and Student Aid by August 15th of the year of entrance. Later applications may be considered in emergencies.

All financial aid, whether scholarship or loan, is granted only to applicants whose need is proved on the basis of information submitted on the Parents' Confidential Statement of the College Scholarship Service. Need is reviewed annually. The College itself makes all final decisions. Awards to entering students are announced simultaneously with admissions decisions.

SELF-HELP

Tenney House, originally established as the gift of Mrs Mary A. Tenney, is open to members of the three upper classes. In this house the students cooperate in the purchase of food and in the duties of housekeeping. The cost of a room in Tenney House is \$200 for the year; current prices determine the cost of board.

The College undertakes general supervision of the remunerative work done by undergraduates. Students wishing any kind of employment during the college year should register with the Director of Scholarships and Student Aid. The amount of available work is limited. Freshmen are not permitted to work outside their houses during their first semester.

MUSIC SCHOLARSHIPS

The College awards scholarships for lessons in practical music each year to students recommended by the Music Department. Auditions are held for entering students after the opening of College.

FIRST GROUP SCHOLARSHIPS

The following scholarships are awarded to students of highest academic standing:

The Neilson Scholarships. Not more than fifteen scholarships, created by the Board of Trustees in honor of President William Allan Neilson on the completion of fifteen years of his administration, are awarded annually to students in the first group of scholars in the three upper classes.

The Dwight W. Morrow Scholarships. Ten scholarships are awarded annually to seniors in the first group of scholars.

The William A. Neilson Scholarship. This provides full tuition for a student in the first group.

The Sophia Smith Scholarships. These scholarships are awarded without stipend to members of the three upper classes whose standing entitles them to a place among the first group of scholars.

FELLOWSHIPS

The announcement of fellowships awarded for graduate work including those open to students from foreign countries is in the *Bulletin of Graduate Studies*.

PRIZE FUNDS

The *Alpha Awards* are made annually by a committee of the faculty for excellence in the fields of creative writing, dance, drama, technical art, practical music or composition.

The *Academy of American Poets Poetry Prize* of \$100, to be awarded annually from 1955 through 1965 by the Academy of American Poets through the prize committee of the English Department for the best poem or group of poems submitted by an undergraduate.

The *Anita Luria Ascher Memorial Prize* of \$25, given in her memory by Dr. Liebe D. Sokol '51 and her parents, to be awarded annually to the student who has shown most progress in German during the year.

The *Elizabeth Babcock Poetry Prize* fund of \$3,203.86, established by Miss Edith L. Jarvis 1909 in memory of Elizabeth Babcock ex-1911. The income is to be awarded annually for the poem adjudged best by a committee appointed by the Department of English. The competition is open to all undergraduates except those who have already won the prize; the poem submitted may not have been printed previously.

The *Harriet Dey Barnum Memorial Prize* fund of \$384.44, founded by the Class of 1916, the income to be used for outstanding work in music.

The *Suzan Rose Benedict Prize* fund of \$1,391.07, the income to be awarded at the discretion of the Department of Mathematics to a freshman or sophomore who has done outstanding work in differential and integral calculus, the decision being made by the Department.

The *Borden Freshman Prize* of \$200, to be awarded annually from 1962 to 1967 to that student who has achieved the highest average grade among the members of the class for all college work taken during the freshman year.

The *Samuel Bowles Prize* fund of \$2,566.59, the income to be awarded to a senior for the best thesis on a sociological or economic subject.

The *John Everett Brady Prize* fund of \$2,563.10, the income of which is awarded for excellence in Latin, to be tested by an examination in sight translation.

The *Margaret Wemple Brigham Prize* fund of \$1,089.26, established in her memory by friends and associates of the Division of Laboratories and Research of the New York State Department of Health, the income to be awarded to a senior for excellence in bacteriology.

The *Amey Randall Brown Prize* fund of \$2,563.10, given by Miss Mabel Brown 1887 in memory of her mother. The income is to be used as a prize for the best essay on a botanical subject.

The *Vera Lee Brown Prize* fund of \$1,281.50. On recommendation of the Department of History the income is awarded for excellence in that subject to a senior majoring in history in the regular course.

PRIZE FUNDS

The *Yvonne Sarah Bernhardt Buerger Prize* fund of \$6,408.30, the income to be awarded to those undergraduates who have contributed most vitally to the dramatic activities of the College.

The *James Gardner Buttrick* fund of \$1,281.50, given by Mrs Buttrick in fulfillment of her husband's wish, the income to be used for a prize for the best essay on a subject in the field of religion and Biblical literature suggested by a course in that Department and approved by the instructor.

The *Carlile Prize* fund given by the Very Reverend and Mrs Charles U. Harris in memory of Dorothea Carlile 1922, from which is awarded a prize of \$25 for the best original composition for carillon and a prize of \$15 for the best transcription for carillon.

The *Julia Harwood Caverno Prize* fund of \$2,563.10, the income of which is given to a member of the junior or the senior class for excellence in Greek language and literature.

The *Sidney S. Cohen Prize* fund of \$3,203.86, the income to be awarded at the discretion of the Department of Economics.

The *Ethel Olin Corbin Prize* fund of \$1,281.50, the income to be awarded to the undergraduate for the best original poem—preferably blank verse, sonnet, or ballad—or informal essay in English.

The *Dawes Prize* fund of \$2,433.22, the income to be awarded for the best undergraduate work in political science.

The *Alice Hubbard Derby Prize* fund of \$3,274.95, the bequest of Mr Henry R. Lang in memory of his wife, a member of the Class of 1885. The income is to be used for prizes awarded by the Classics Department to students of the junior and senior classes who have shown special proficiency in the study of Greek literature in the original in the year in which the awards are made. The award will be based on an examination in sight translation.

The *Hazel L. Edgerly Prize* fund of \$640.75, founded in memory of Hazel Louise Edgerly 1917, the income to be awarded on the recommendation of the Department to a senior in honors in history for distinguished work in that subject.

The *Settie Lehman Fatman Prize* fund of \$6,407.82, the income to be awarded in two prizes for the best musical composition, preferably in sonata form, and for the best composition in a small form by members of the Senior Class or graduate students taking Music 42 or Special Studies in Composition or by a student in Music 33.

The *Harriet R. Foote Prize* fund of \$640.75, the income of which is to be awarded to the outstanding student in botany, based on an examination record.

The *Henry Lewis Foote Memorial Prize* fund of \$640.75, given by his wife, Harriet Risley Foote 1886, the income to be awarded for excellence in class work in Biblical courses.

PRIZE FUNDS

The *Clara French Prize* fund of \$6,408.06, founded by Mrs Mary E. W. French, the income to be given to that senior who has advanced farthest in the study of English language and literature.

The *Helen Kate Furness Prize* fund of \$1,281.50, founded by Horace Howard Furness, the income of which is given for the best essay on a Shakespearean theme. There is no restriction on the length of the essays, but in general they are not to be shorter than 4000 words nor longer than 10,000 words. The competition is open to all essays on a Shakespearean theme (except honors theses) prepared in courses or units and recommended by the instructors of such courses or units.

The *Sarah H. Hamilton Memorial Prize* fund of \$926.56, given by her sister Mrs Julia H. Gleason, the income to be awarded for an essay on music.

The *Arthur Ellis Hamm Scholarship Prize* fund of \$6,407.82, founded by Elizabeth Creevey Hamm 1905 in memory of her husband, Captain Arthur Ellis Hamm, the income to be awarded to a freshman on the basis of the year's record.

The *Frances A. Hause Memorial Prize* fund of \$1,281.50, founded in memory of Frances A. Hause 1922, the income to be awarded to the senior who has majored in chemistry and has made the best record in that subject.

The *Florence Corliss Lamont Prize*, a medal to be awarded for work in philosophy.

The *Emogene Mahony Memorial* fund for the furtherance of English literature and dramatic art from which is awarded \$25 for the best essay on a literary subject written by a student in English 11, and \$100 for the best honors thesis submitted to the Department of English.

The *Emogene Mahony Memorial Prize* fund of \$640.75, founded by Miss Ethel Haskell Bradley 1901, the income to be given for proficiency in organ.

The *John S. Mekeel Memorial Prize* fund of \$1,000, given in his memory by his wife, the income of which is to be awarded annually to a member of the senior class, selected by the Philosophy Department, for outstanding work in philosophy.

The *Samuel Michelman Memorial Prize* fund of \$640.75, given in his memory by his wife, the income to be awarded to a senior from Northampton or Hatfield who has maintained a distinguished academic record and contributed to the life of the College.

The *Mrs Montagu Prize* fund of \$512.63, founded by Mrs Abba Louisa Goold Woolson in honor of Mrs Elizabeth Montagu, the income to be awarded for the best essay on the women of the eighteenth century or women depicted in the literature of that century.

The *Victoria Louise Schrager Prize* fund of \$2,563.23, given in her memory by her family and Miss Marjorie Hope Nicholson, the income to be awarded annually to a senior who has maintained a distinguished academic record and has also taken an important part in student activities.

PRIZE FUNDS

The *Andrew C. Slater Prize* fund of \$1,281.50, the income of which is awarded to an undergraduate for excellence in debate.

The *Frank A. Waterman Prize* fund of \$429.33, the income to be awarded to a senior who has done excellent work in physics.

1965 Awards

PRIZES

- Alpha Awards:* in art, Mary Speziale, 1965; creative writing, Ila Lea Abernathy, 1965; dance, Elizabeth Winter, 1965; music, Amy Kaiser, 1965; theatre, Penelope Wise, 1965
- Academy of American Poets Poetry Prize:* Carole Harmel, 1967
- American Association of University Women Award:* Nancy Weiss, 1965
- American Chemical Society Student Award, Connecticut Valley Section:* Constance Reikes, 1965
- American Institute of Chemists' Medal:* Marina Velentgas, 1965
- Anita Luria Ascher Memorial Prize:* Krishna Winston, 1965
- Elizabeth Babcock Poetry Prize:* Penelope Phillips, 1965; Linda Hough, 1966
- Harriet Dey Barnum Memorial Prize:* Karen Kellogg, 1965
- Suzan Rose Benedict Prize:* Barbara Maly, 1967
- Borden Freshman Prize:* Rosalind Rayack, 1968
- Samuel Bowles Prize:* Economics: Marjorie Levitin, 1965, and Sarah Taylor, 1965; Sociology: Susan Reynolds, 1965
- John Everett Brady Prize:* Diana Gould, 1966
- Margaret Wemple Brigham Prize:* Catharine Bowman, 1965
- Amey Randall Brown Prize:* First Prize: Ruth Coombs, 1967; second prize, Marjorie Sherċ, 1966
- Vera Lee Brown Prize:* Marilyn Smith, 1965
- Yvonne Sarah Bernhardt Buerger Prize:* Cara Saylor, 1965, and Diana Lord, 1965
- James Gardner Buttrick Prize:* Charlotte Leighton, 1967
- Carlile Prize:* Jane Rockman, 1965; Judith Clark, 1965
- Sidney S. Cohen Prize:* Carlene Hatchell, 1965; Lesley Oelsner, 1965
- Alison Loomis Cook Scholarship Prize:* Evelyn Bromet, 1966
- Ethel Olin Corbin Prize:* Susan Froehly, 1966
- Dawes Prize:* Kathryn Doherty, 1965
- Alice Hubbard Derby Prize:* Diana Gould, 1966
- Amanda Dushkin Scholarship Award:* Nan Freeman, 1966
- Hazel L. Edgerly Prize:* Nancy Weiss, 1965
- Settie Lehman Fatman Prize:* Mary Marsh, 1965
- Harriett R. Foote Prize:* Sarah Bradley, 1968
- Clara French Prize:* Janet Burack, 1965
- Helen Kate Furness Prize:* First Prize: Christine Eisenhauer, 1965; second prize: Janet Burack, 1965 and Michele Sviridoff, 1966
- Sarah H. Hamilton Memorial Prize:* Karen Lyn Antonson, 1965
- Arthur Ellis Hamm Scholarship Prize:* Rosalind Rayack, 1968
- Frances A. Hause Memorial Prize:* Katherine Santomassino, 1965
- Award from the Mahony Fund:* Janet Burack, 1965 and Fairinda West, 1965
- Emogene Mahony Memorial Prize:* Carolyn Dickey, 1965
- Guthrie McClintic-Katharine Cornell Prize:* Cara Saylor, 1965
- Samuel Michelman Memorial Prize:* Karen Knight, 1965
- Constance Mildred Schmolze Prize:* Dinitia Smith, 1967
- Victoria Louise Schrager Prize:* Susan Weinstein, 1965
- Teachers College--Smith College Book Prizes:* Barbara Reeves, 1966; Mary Price, 1966

FIRST GROUP SCHOLARS*

Class of 1966

Aileen Catherine Adams	Karen Elizabeth Kuntz
Kathryn Adelberg	Jane Margaret Lake
Sylvia Martha Berman	Nancy Ellen Larkin
Ellen Douglas Borie	Laraine Rita Leberfeld
Anna Maynard Craig	Emma Hsiang Tsin Lin
Pamela Jane Cuming	Susan Katherine Low
Joellyn Toler Duesberry	Kathleen Middlekauff
Susan Gretchen Freiheit	Diane Janet Pamp
Diana Churchill Gould	Jane Catherine Purcell
Patricia Jane Hoffman	Susanne Frances Roberts
Barbara Ann Katz	Leslie Nova Selden
Carolyn Wilker Korsmeyer	Susan Jane Steinberg
Linda Carol Kridel	Michele Susan Sviridoff
Mary Christine Krogh	Anna Louise Vietor

Class of 1967

Barbara Frances Beers	Victoria Ena Leitner
Beatrice Barkley Carlson	Barbara Janet Maly
Gale Susan Cooper	Amy Louise Namowitz
Jane Ellen Cope	Leslie Norton
Marion Roberts Foote	Helen Barbara Pinkerton
Stefany Jill Heiligman	Ellen Kay Stone
Joan Prince Hutchinson	Jill Aileen Tuchman
Nicola Krein	Justina Winston

*These include the Dwight W. Morrow, the Neilson, the William Allan Neilson, and the Sophia Smith scholars.

1965 AWARDS

Class of 1968

Lisbeth Ann Alpern
 Mary Ellen Birkett
 Arline Florence Boyer
 Frances Elizabeth Carson
 Ellen Haselton Dibble
 Julia Stanbery Gibson

Carole Eudice Goldberg
 Frances Leah Londow
 Mary Alice McDermott
 Carole Aris Pope
 Rosalind Rayack
 Carol Ann Waksmonski

Sallie Cameron Waterman

DEGREES

A.B.

Ila Lea Abernathy
 *Barbara Howland Abramson
 Kirby Adams
 Nancy Joan Adams
 Nora Lee Adams
 Ruth Margaret Adams (Lewis)
 Caroline Marie Adamski
 Jane Carol Alexander
 Katharine Bullard Alphin
 Helen Hull Amestoy
 Kathryn Underhill Amey
 Barbara Alice Andrews
 Marion Frances Antiles
 Karen Lyn Antonson
 *Elizabeth Randolph Arnold
 †Judith Dallas Arnold
 Sara Elizabeth Arnold
 Susan Denise Aronstein
 Nancy West Ayers

Kathryn Louise Bach
 Katharine King Bahnson
 Katharine Wood Baird
 Alice Willard Baker
 Susan Ann Baker (Cohen)
 Eleanor Runman Baldwin

Victoria Watson Barrett
 Cornelia Ann Barry
 Laird Anne Beardmore
 Suzanne Winton Beardsley
 Barbara Jean Bechtel
 Leslie Alice Beecher
 Marianne Bell
 Olivia Irene Bell
 Nancy Marian Berg
 Joanna Sara Bergman
 Beverly Parker Bingham
 Sionag Margaret Black
 Martha Sue Blackledge
 Diana Elizabeth Bland
 Sandra Blutman
 Norma Elaine Bornstein
 Catherine Ginter Bowman
 Kathleen Ann Brady
 Kristina Branch
 Toby Ruth Bremer
 Patricia Lou Brindisi
 Eileen Brockbank
 Diane Gladys Brooks
 Deborah Ann Brown
 Delberta Joanne Brunner
 Jóna Edith Burgess

*Elected to Phi Beta Kappa

†Elected to Sigma Xi

1965 AWARDS

Kathleen Marie Burke
Merrily Butler
Lucy Elliott Bygrave

Sandra Marie Calavano
Mary Ann Campbell
Barbara Bowers Cannon
†Cynthia Laurel Carlson
Diana Lea Carroll
Lucille Ann Cass
Victoria Lye Hua Chan
Julia Chase
Mary Jane Churchill
Ann Kramer Clark
Deborah Ayer Clark
Susan Soule Clark
Susanne Deborah Clark
Barbara Chandler Cleveland
Judith Welles Clymer
Lois Joann Cobb
Harriet Nancy Cohen
Jane Alice Connor
Joan Andrée Conrad
Barbara Anne Coombs
Lynda Ruth Corey
Margaret Merrill Crafts
Martha Lee Cross (Marr)
Mary Allerton Cushman

Paula Anne Daigneault
Elizabeth Anne Dalton
Rosamond Wild Dana
Toni-Lynn Dapolonia
Mary Diane Davant
Martha Orr Davenport
Jane Hamilton Davis
Geraldine Burgess Day
Deborah Ann Deal
Diane Maria DeGrazia
Madelaine DeHuszar

Marina Alexandar Dejanovic
Mary Bell DeLong
Joan Denious
Carolyn Dickey
Marilyn Andrea Dobbs
Alice Dodge
Pamela Nan Dokken
Stephanie Lorraine Dranoff
Joanne Pederson DuBois
Barbara Joan Dugall (Jackson)
Patricia Anne Dugall
Stephanie Dunning
Mary Caroline Durrum
Doraleen Marie Duseau

Eleanor King Earle
Priscilla Eaves
Pamela Ann Edwards
Valerie Curtis Ellett
Charlotte Anne Elliott
Constance Anderson Elliott
Joan Betty Ells
Elizabeth Ann Elston
Beverly Irene Ennis
Martha Lee Ensey
Christine Marion Erickson
Caroline Chapman Escher
Elizabeth Tracy Eubank
Elizabeth Courtney Euwer

Paula Maria Ferris
Jo Renée Fine
Jean Kanarre Finkelstein
Patricia Ann Flynn
Marilyn Fogelson
Lynne Bray Foldessy
Caroline Lawrence Forsyth
Judith Kendall Forsythe
Elizabeth Rives Fowlkes
Lucy Kimbrough Francis

1965 AWARDS

†Elizabeth Abbott Fryatt
Sibyl Fulenwider
Marian Irene Fuller

Pamela Andrews Getz
Paula Arnold Gibson
Jean Scott Godsman
Julie Ann Goetz
Dorothy Carol Goldberg
*Marian Jacqueline Goldberg
Susan Martha Goldstein
Laura Nancy Goodman
Mary Elizabeth Gordon
Shana Erin Goss
Ainsley Reed Gould
Marjorie Ellen Greenleaf
Marjorie Diane Grefe
Barbara Dickson Griffin
Christine Griffith
Charlotte Lee Grinnan

Elizabeth Haas
Francine Haber
Judith Adeline Haber
Marguerite Colton Hagner
Mary Ann Hall
Susan Wilder Hall
Anne Hallenbeck (McWilliams)
Susan Cheney Hamilton
Kathleen Wiley Hammer
Deborah Anne Hammond
Sarah Gordon Hanford
Anne Harding
Ann Morin Harkness
Florence Boulton Harmon
Merble Ann Harrington
Freda Anne Hart
Marjorie Leslie Harth
Carlene Alice Hatchell
Nancy Carolyn Haynes

Carol Ann Heifetz
Susan Fielding Heim
Sarah Washburn Henry
Penelope Louise Hensel
Susan Jean Herman
Mary Josephine Hibbard
Marion Suzanne Hickman (Pratt)
†Sarah Ellen Hitchcock
Constance Middleton Hoguet
Harriet Leeds Holan
Suzanne Marie Holden
Elizabeth Whitcomb Holloway
Tanya Lee Hostetler
Alice Painter Howard
Jane Regan Howard
Eleanor Lawther Howe
Marilyn LaRue Howell (Henry)
Sandra Régine Howson
Anne Hunter
Felicity Anne Hyde

Jane Dorsey Imrie
Gai Elizabeth Ingham
Leslie Reynolds Innis

Nancy Vaughan Jackson
Victoria Jane Jackson
Manuela Carla Lucia Jemma
Judith Griswold Johnson
Judith Lawson Johnson
Sheila Warfield Johnson
Filomina Clarice Jones
Jan Andrea Jones
Vera Virginia Jones

Susan Margaret Kachel
Susan Kaplan
Anna Demetrius Kartsonis
Gretty Kazes
*Karen Williams Kellogg
Anne Hugh Kennedy

1965 AWARDS

Ellen Catharine Kennedy	Barbara Joan Maclean
Patricia Eleanor Keren	Barbara Lee Mahony
Charlotte Anita Kernan	Elena Sabin Mannes
Rosemary McMillan Killen	Linda Steudle Marbury
Christie Clay Knapp	Sherry Elizabeth Marcy
Karen Dyson Knight	Hope Shepley Mariner
Lynn Gail Komroff	Judith Ann Markheim
Margaret Anne Kornhauser	Joanne Ebert Marsden
Frances Mary Kwoka	Rebecca Paull Marshall
Helen Rose Laine	Vivian Joan Martin
Helen Swaine Lambeth	Lisbeth Gay Matthews
Marilyn Lampert	Suzanne Smith Meckes
Rebecca Louise Lawrence	Christine Andrea Meier
Anne Elizabeth Lawson	Virginia Elizabeth Merlier
Barbara Diane Leaming	Martha Fenton Miller
Ann Hotard LeBoeuf (Evans)	Susan Greenwood Miller
Linda Ann Lee	Catherine Maria Miraglia
Penelope Lee	Gloria Lynn Mishuris (Buxbaum)
Randy Ellen Lee	Katharine Giltinan Mitchell
Nancy Hamilton Leggett	Gail Ann Montagna
Ellen Jean Levitt	Anna Reynolds Moore
Mary Elizabeth Lilly	†Anne Moore
Martha Linda Litchman	Martha Edith Moore
Patricia Anne Litton	Michele Elsinore Morgan
*Wendy Logès	Sandra West Morgan
Rosamond Littlefield Lombard	Jill Moring
Diana Van Dyke Lord	Francesca Morosani (Thompson)
Barbara Laurette Love	Charlotte Lynn Morris
Pamela Winslow Lovell	Jean Russell Murphy
Janet Elizabeth McCabe (Berrien)	Mary Floy Myers
Marion Elizabeth McCarthy	Susanne Mykel (Osgood)
Melanie Sibley McCray	Rosemary Juliette Neaher
Jane Allen MacDougal	Harriett Finucane Neville
Heather Elizabeth MacLean	Elizabeth Jarvis Nichols
Katharine MacLean	Marta Susana Nicoli
Martha Anne McManus	Cordelia Furnald O'Brien
Jane Irene MacMaster	Karen Elizabeth Ondras
Carol Ann McPhee	Sarah Kate Otto
Brenda Gael McSweeney	Susan Braden Oxman

1965 AWARDS

Susan Channing Page
 Susan Jane Parker
 Virginia Lawrence Parker
 Denyse Ann Parsons
 Margaret Jean Pearson
 Gardi Sigrun Pedersen
 Priscilla Alden Peirce
 Pamela Culver Pelton
 Carol Jean Perkins
 Diana Roselle Peterson
 Roberta Anne Peterson
 Penelope Anne Phillips
 Marlin Sally Pierce
 Carolle Jane Poehler
 Judith Anne Poehler
 Shirley Ann Pryor
 Kate Davis Putnam

Barbara Veronica Quandt

Jane Rabin
 Diane Parsons Rader
 Catherine Sara Rafferty
 Kate Howard Raftery
 Mary Renne Rankin
 Elizabeth Mary Ratynski
 Mary Payne Ray
 Jeanne Trulove Recker
 Marjorie Stuart Reed
 Stephanie Reed
 Anne Parks Reynolds
 Gudrun Jane Rice
 *Wilma Gail Richlin
 Elizabeth Ann Roberts
 Jane Linda Rockman
 Condon Rodgers
 Mary Elizabeth Rodgers (Grannis)
 Virginia Root
 †Diane Janice Rose
 Bette Harriet Rosenbaum (Henick)

Carol Malm Rosenbaum
 Susan Kay Rostad
 Marcia Carol Rowney
 Joan Vander Veer Rugen
 Janet Carolyn Russell

Carol Ann Sanders
 Josephine Ann Saunders
 Marie-Noël Saurel
 Cara Bryn Saylor
 Dorothy Marshall Schalk
 Jane Schilling
 Mary Jean Schmidt
 Madeleine Gay Schneider
 Dorothy Page Schneirla
 Marcia Schofield
 Janet Marie Scholtz
 Susan Arlene Schroeder
 Sandra Cathrin Schuette
 Patricia Rae Schwabe
 Adele Joy Schweitzer
 Susan Gay Scott
 Vicki Jean Scott
 Janet Elizabeth Scovill
 Beth Ann Seidmon
 Phebe Burwell Sessions
 Marcie Louise Setlow
 Paula Marie Shea
 Sue Cowles Shepard
 Judith Gowen Shields
 Roberta Jane Silverman
 Marsha Ruth Silverton
 Renata Elizabeth Siménas
 Caron Ann Smith
 Elizabeth Ann Smith
 Helen Valery Hungerford Smith
 Jane Llewellyn Miller Smith
 Janet Marilyn Smith
 Josephine Bailey Smith
 Margaret Coburn Smith

1965 AWARDS

Marilyn Ray Smith
 Sharon Louise Smith
 Sarah Jane Soule
 Jane Bradshaw Spencer
 *Mary Lucretia Speziale
 Joaneath Ann Spicer
 Myrtis Harriett Stanislaus
 Tallmadge Starr
 Patricia Elizabeth Starratt
 †Margaret Taylor Stewart
 Karin Elizabeth Stines
 Caroline Mary Stoel
 Margaret Bonnell Sturgis
 Sally Anne Sveda
 Katherine Hood Swenson
 Nancy Swink

Wendy Anne Tarlow
 Barbara Alden Taylor
 Barbara Elizabeth Taylor
 Tamsin Curtiss Taylor
 Elizabeth Browning Tener
 Lida Lee Thompson
 Sherry Michele Tigar
 †Victoria Fiske Tompkins

Marianne Unger

Alice Louise Van Leunen
 Marina Xenia Velentgas

Dorothy Allen Victor
 Behna Marks Vogel (Gardner)

Sarah Kennard Wakefield
 Nancy McLeod Dingman Watson
 Gay Van De Vere Weake
 Rosalind Webster
 Stefanie Weickert
 Margaret Fabens Wendt
 Jeannette Seymour Whitcraft
 Margaret Ann White
 Nancy Lee Wickersham
 Ann Elizabeth Wiederrecht
 *Joan Folinsbee Wiggins
 Ann Armour Wilkerson
 Anne Douglas Williams
 Nancy Quirk Williams
 Elizabeth Linda Winter
 Mary Alice Winters
 Penelope Kay Wise
 Alexandra Heidi Wojcechowsky
 Judith Lynn Wolfe
 Linda Fay Woodbury
 Lois Ann Wotanowicz

Catherine Cecelia Young
 Elaine Young

Gayle Barbara Zelermyer

With distinction

*Sharon Andrea Chase
 *Annie Chilton Davis
 *Carey Barbara French
 *Patricia Ann Leahy
 *Ruie Diane Morgan
 *Lesley Oelsner

*Tracy Dayton Quayle
 *†Pamela Jeanne Riley
 *Sheryl Lynn Ruskin
 *Sarah Ann Sanford
 *†Marianne Bruning Schwarz
 *Barbara Hope Steinberg

*Susan Henry Timken

1965 AWARDS

HONORS

Cum laude

Lois Edwards Athey, *Government*
Deborah Moore Averill, *English*
*Elizabeth Anne Bassell, *History*
Ellen Ruth Bear, *History*
Katherine Shereen Bilimoria, *Government*
Jacqueline Anita Carleton (Doherty), *History*
Carolyn Edna Carney, *Economics*
Joan Sophia Chasan, *History*
Martha Brookes Clyde, *Economics*
Mary Judith Coburn, *Government*
*Sharon Lee Cooper, *Government*
Patricia Ann Corcoran, *American Studies*
Carol Ann DeSilvio, *Government*
Susan Marie Duell, *English*
Katrina Ryerson Dyke, *English*
Elisabeth Gaynor Ellis, *History*
Jane Evangelist, *American Studies*
†Hedy Joanne Fox, *Mathematics*
Patricia Marie Garrett, *Sociology*
Jean Grier Gibson, *Economics*
Arlene Madelyn Herman, *French*
†Carol Lynn Kay, *Psychology*
Claudia Ann Kirkpatrick, *English*
Cornelia Winn Kittler, *Classics*
*Lynne Diane Lammers, *French*
Brenda Liebling, *English*
Adair Elizabeth Linn, *History*
Judith Ann McCoy, *Music*
Nancy Fitz-Hugh Meneely, *English*
Margaret Alice Miles (Ayres), *Economics*
Linda Toni Minkley, *Education*
Helaine Enid Morris, *Sociology*
Mary Jo Myers, *History*
Despina Mary Offenhauser, *Government*
Virginia Elizabeth Parker, *History*
Elinor Louise Paulson, *Government*
Mary Ellen Pennell, *History*
Ingrid Hanni Perdew, *Spanish*

- Marcia Louise Peterson, *Sociology*
 †Katherine Ann Santomassino, *Chemistry*
 Roberta Schenker, *English*
 Betti Bob Smith, *English*
 Carolyn Mary Ellen Smith, *English*
 Virginia Townsend Snyder, *History*
 †Mary Anne Sullivan, *Psychology*
 Sarah Blyth Taylor, *Economics*
 *Susan Linda Weinstein, *English*
 Frances Ellen Yoffe, *Government*

Magna cum laude

- *Robin Bracken, *Philosophy*
 *Lucy Virginia Chanin, *Government*
 †Ruth Ellen Chervin, *Botany*
 *Judith Seymour Clark, *History*
 *†Barbara Jean deFlorio, *Mathematics*
 *Emeline Bartlett Eilert, *Religion*
 Christine Eisenhauer, *English*
 *Helen Sue Feldstein, *Government*
 Mary Ellen Hurlbutt, *Government*
 Naomi Lynn Hurwitz, *Philosophy*
 *Amy Laura Kaiser, *Music*
 Elizabeth Boyd Keeney, *Government*
 *Katherine Eve Krasnow, *Art*
 *Martha Hoath LaFollette, *Spanish*
 Lynn Ellen Leithauser, *Ancient Studies*
 Marjorie Sue Levitin, *Economics*
 Anne Lochridge, *Government*
 Cleo McNelly, *English*
 Mary Thompson Marsh, *Music*
 *Roberta Agnes Moore, *English*
 *†Susan Dale Paounoff, *Psychology*
 *Mary Adelaide Peckham, *Music*
 Elsa Adelaide Rassbach, *Art*
 *Wendy Allan Reed (Bosworth), *Economics*
 *†Constance Dee Reikes, *Biochemistry*
 Susan Marguerite Reynolds, *Sociology*
 *Barbara Pauline Ringold, *Latin-American Studies*

1965 AWARDS

Joan Teresa Rosasco, *French*

Nancy Heyl Royster, *History*

*Gertrude Sandra Rubin, *Government*

Roberta Frances Siegal, *English*

Jennifer Grace Smith, *Government*

*Carol Jung Tuchmann, *American Studies*

Summa cum laude

*Janet Elizabeth Burack, *English*

*Kathryn Barbara Doherty, *Government*

*†Adrienne Barbara Marmarosh (Kotimsky), *Mathematics*

*†Beverly Shriver Mitchell, *Biochemistry*

*Nancy Joan Weiss, *History*

*Fairinda Washington West, *English*

*Krishna Ricarda Winston, *German*

M.E.D.

Catherine Rita Anselmin, B.A., Hunter College, 1964.

Anne Marie Corbo, B.A. in Ed., Newark State College, 1964.

Marilyn Diane Costello, B.A., Fontbonne College, 1962.

Ruth Jolene Edwards, B.S. in Ed., Wisconsin State College at LaCrosse, 1953.

Kathleen Margaret Gabe, B.S. in Ed., Northern Illinois University, 1964.

Norma Barry Griffin, B.A., San Francisco State College, 1949.

Sister Marie Colette Hanlon, S.C., B.A., Seton Hill College, 1963.

John David Hinkle, A.B., Asbury College, 1963.

Leslie Ann Ladd, B.S., University of Michigan, 1964.

George Daniel Leman, A.B., Champlain College, 1952; M.A., University of Denver, 1959.

Bette Jo Lueck, B.S., Eastern Michigan University, 1963.

Marjorie Elene Magner, B.S. in Ed., University of Omaha, 1943; A.M., Smith College, 1949.

Siddiq Akbar Makhdom, B.Sc., University College, Aligarh, 1933; M.Sc., University College, Aligarh, 1940.

Alan Louis Marvelli, B.S. in Ed., State College at Bridgewater, 1964.

Mary Ann Tarr, B.A., Los Angeles State College, 1964.

Ruth Ann Thomson, B.S. in Ed., Pennsylvania State University, 1962.

Susan Gail Williams, B.A., University of Michigan, 1964.

1965 AWARDS

DIPLOMA IN AMERICAN STUDIES

- Nicole Baffie, Propédentique, University of Lyon, 1963; Certificat de Fin d'Etudes Normales, University of Lyon, 1964.
Truong Thi Ngoc Lien, Licence ès Lettres, Sorbonne, 1964.
Akiko Murakata, B.A., University of Tokyo, 1964.
Teresa Rosa Pallega, Lic. en Filosofia y Letras, University of Madrid, 1964.
Ursula Marie Elisabeth Philipps, Staatsexamen, University of Heidelberg, 1964.
Krystyna Przybylska, M.A., Warsaw University, 1961.
Kyoko Takahashi, B.A., Chuo University, Tokyo, 1964.

M.S. IN PHY. ED.

- Margaret Elena Couper, A.B., University of California at Los Angeles, 1964.
Patricia Davison Mail, B.S., University of Arizona, 1963.
Kathleen Mary Wynne, B.S., Central Connecticut State College, 1962.

ED.M.

- Lilia Maria Eloisa Alphonse, B.A., Bennett College, North Carolina, 1964.
Ruth Abramson Brenner, A.B., Boston University, 1964.
Janet Katherine Burke, A.B., Smith College, 1964.
Susan Virginia Merrill, A.B., Smith College, 1964.
Linda Barry Walkley, A.B., Smith College, 1964.

M.A.T.

- Katherine Sung-Mei Chao, A.B., Smith College, 1964. History.
Patricia Brough Conrad, B.A., Wittenburg University, 1962. French.
Nupur Das Gupta, B.A., Jogamaya Devi College, Calcutta, 1962. History.
Catherine Eleanor O'Connell, B.A., University of Massachusetts, 1963. English.
Dorothy Brenda Rosenfeld, B.A., University of Pennsylvania, 1963. English.
Jean Monrad Scheidenhelm, A.B., Smith College, 1939. Music.
Myrl Eilene Solberg, B.S., Cornell University, 1963. English.

A.M.

- Grace Parimala Appasamy, B.Sc., Women's Christian College, Madras, 1963. Chemistry.
Lee Howard Bodine, B.A., Old Dominion College, 1963. History.
Diana Frances Cartier, B.A., St. John's College, 1956. Psychology.
Marilyn Louise Cayer, A.B., Emmanuel College, 1963. Zoology and Chemistry.

1965 AWARDS

- Nora Nim Yan Chan, B.Sc., A.R.S.C., Imperial College, University of London, 1964. Chemistry.
- Sandra Elaine Collins, B.A., Evansville College, 1963. Zoology.
- Dee Ann Dahl, B.M.E., Cornell College, 1964. Music.
- Patricia Helene DeNyse, B.A., Hunter College, 1963. History.
- Amal Yacoub Girgis, B.Sc., American University at Cairo, 1963. Chemistry.
- Dorothy Anne Johnson, A.B., Mount Holyoke College, 1954. Theatre.
- Elaine Jevly Langlois, B.S., Jackson College, 1958; M.A.T., Radcliffe College, 1959. Zoology.
- Sister M. Anne Pauline Madore, S.S.A., A.B., Anna Maria College, 1961. Chemistry.
- Frances Margaret Mahan, B.A., University of New Brunswick, 1962. Philosophy.
- Chung-Hie Nah, B.Sc., Yonsei University, Seoul, 1963. Botany.
- Lynn Marie Rawlins, B.A., Ohio State University, 1963. Theatre.
- Juan Antonio Rivas-Lopez, Bach. Leng., University of Granada, 1954. Spanish.
- Mary Margaret Robischon, B.A., American International College, 1961. History.
- Anne Martha Seifert, B.A., Hofstra College, 1963. Psychology.
- James Raymond Shearwood, B.A., Amherst College, 1963. Theatre.
- Margaret Walsh, M.A., University of St. Andrews, 1964. History.

HONORARY DEGREES

- | | |
|---|--------------------------|
| Constance Baker Motley | Doctor of Humane Letters |
| <i>Advocate, Champion of Civil Rights, and Public Official</i> | |
| Louise Adams Holland | Doctor of Letters |
| <i>Scholar, Teacher, and Explorer of Ancient Rome</i> | |
| Marian Ropes Fielding '24 | Doctor of Science |
| <i>Teacher of Doctors and Student of Rheumatic Diseases</i> | |
| Muriel Clara Bradbrook | Doctor of Laws |
| <i>Shakespearean Scholar, Teacher, and Academic Administrator</i> | |
| Catherine Crozier Gleason | Doctor of Music |
| <i>Musician and Organist</i> | |

SCHOOL FOR SOCIAL WORK DEGREES

September, 1965

D.S.W.

Pauline Durant Lide, A.B., Limestone College, 1938; M.S.S., University of South Carolina, 1941; A.M., University of Chicago, 1946.

Donald Eugene Meeks, B.S., Hampton Institute, 1952; M.S.W., Atlanta University, 1956.

Neilson Frederick Smith, B.A., American International College, 1953; M.S.W., University of Connecticut, 1955.

M.S.W.

Edith Guynelle Bearden, A.B., Mercer University, 1962.

Clifford Mozelle Biggers, A.B., University of Georgia, 1962.

Constance Lilian Blackett, Social Study Diploma, University of Birmingham, 1947.

Gloria Naomi Boni, A.B., Smith College, 1963.

Nancy Anne Bourne, A.B., Randolph-Macon Woman's College, 1961.

Selma Bloch Brown, A.B., Temple University, 1962.

Jane Staunton Bunch, M.A., University of St. Andrews, 1958; Certificate in Social Science and Administration, London School of Economics and Political Science, 1959.

Loretta Emily Chabot, A.B., Regis College, 1959.

Winifred Parks Chambers, A.B., Vassar College, 1960.

Sharon Cox, B.S., Arizona State College, 1963.

Michael DiTocco, B.S., Fordham University, 1950.

Mary Carolyn Chiles Docraat, B.S. in Bus. Adm., Tennessee Polytechnic Institute, 1962.

Claire Elizabeth Elkon, A.B., Smith College, 1962.

Mary Everett, A.B., Grinnell College, 1963.

Sunny B. Friedman, A.B., University of Rochester, 1963.

Elizabeth Bailly Gaskill, A.B., Colorado College, 1963.

Joan Ruperti Gerda, A.B., Smith College, 1959.

Evalyn Goldberg, B.A., Central State College (Oklahoma), 1963.

Elizabeth Mary Habach, A.B., Goucher College, 1963.

Martha Louise Hanger, A.B., Smith College, 1963.

Constance Marie Hart, A.B., Woman's College of the University of North Carolina at Greensboro, 1959.

Linda Ann Harvey, B.S., University of New Hampshire, 1963.

Margaret Kirchoff Hasslock, B.A., University of Tennessee, 1963.

Brenda Sue Hirsch, A.B., University of Georgia, 1963.

Ann Lael Horowitz, A.B., Indiana University, 1955; A.M., Columbia University, 1961.

Christine Marie Hudak, A.B., Notre Dame College, 1961.

1965 AWARDS

- Pearl Millicent Maxwell Jones, B.A., University of London, 1950.
Constance Dorothy Kallfa Kellogg, A.B., Connecticut College, 1962.
Myrna Joy Kistemaker, A.B., Capital University, 1963.
Elizabeth Pauline Buckley Kligerman, B.S., Southern Connecticut State College, 1963.
Margaret Madeleine Knight, B.A., University of Oxford, 1957; Postgraduate Diploma in Social Studies, Bedford College, 1958; Diploma in Applied Social Studies, London School of Economics and Political Science, 1959.
Mary Elizabeth Lee, A.B., Smith College, 1963.
Sherrill Katherine Green Meeks, B.A., College of Wooster, 1963.
Ann Louise Milligan, B.S., University of New Hampshire, 1961.
Katherine Anne Monsees, A.B., New York State College for Teachers (Albany), 1957; A.M., Cornell University, 1960.
Daria Maria Mudry, A.B., Rutgers, The State University, 1961.
Marjorie May Sloan Nicol, B.A., Newcomb College of Tulane University, 1948; A.M., Teachers College, Columbia University, 1953.
Carolyn Jeane Otto, A.B., Albright College, 1963.
Hansjoerg Pitsch, Diploma, School for Social Work, Zurich, 1954.
Janice Danielle Polk, A.B., Beaver College, 1963.
Helen Block Post, A.B., Brooklyn College, 1939.
Faustina Monica Ramirez, B.A., Texas Woman's University, 1962.
Constance Ross, B.A., University of Toronto, 1944; M.A., University of Minnesota, 1950.
Sheila Heather Grobe Rossbach, A.B., Chatham College, 1963.
Emily Killian Shiling Schrag, A.B., Radcliffe College, 1963.
Joan Marie Scratton, B.A., University of Melbourne, 1963.
Anne McGuire Sharp, A.B., Muskingum College, 1961.
Ellen Garde Smith, A.B., Douglass College, 1963.
Fay Minnie Smith, B.A., American University, 1958.
Janet Lynn Taksa, A.B., Bennington College, 1963.
Amy Belle Talley, A.B., Radcliffe College, 1963.
Jeanne Best Turner, A.B., University of Kansas, 1943.
Alice Johanna Maria van der Pas, Diploma Psychiatric Social Worker, National Catholic Centre for Child Guidance Clinics (Utrecht), 1959.
Susan Ruth Varner, B.S., University of Wisconsin, 1960.
Gloria Elizabeth White, B.A., Hampton Institute, 1963.
Marilyn Davis Whitehead, A.B., University of Hartford, 1962.
Patricia Ann Wilkinson, A.B., College of Our Lady of the Elms, 1959.
Barbara Ende Zalkind, A.B., Brooklyn College, 1963.
Anastasia Vassilios Zombola, Certificate, Pandios Graduate School of Political Sciences, 1961; Certificate, Royal National Foundation School of Social Work, 1962.

Smith College School for Social Work

THE STAFF

HOWARD J. PARAD, M.S. IN S.S.

ESTHER H. CLEMENCE, M.S.S.

HELEN PINKUS, M.S.S.

ROGER R. MILLER, D.S.W.

JAMES M. MORRISSEY, D.S.W.

GERALDINE L. CONNER, D.S.W.

SIDNEY L. WASSERMAN, D.S.W.

ANNE O. FREED, M.S.S.

ELIZABETH C. JOHNSON, B.S.

BETTY H. VOGEL, M.S., M.ED.

Director and Professor of Social Work

Director of Field Work

Associate Professor of Social Work

Supervisor of Field Work

Associate Professor of Social Work

Director of Research

Associate Professor of Social Work

Editor, Smith College Studies in Social Work

Associate Professor of Social Work

Associate Professor of Social Work

Assistant Professor of Social Work

Assistant Professor of Social Work

Executive Secretary and Registrar

Assistant Executive Secretary

ORGANIZATION OF THE SCHOOL

The Smith College School for Social Work was organized in 1918 as a graduate school in which to prepare psychiatric social workers for the war emergency. During 1918 and 1919 an intensive course of theory and a period of supervised practice were given to those who were graduated. These at once found their places in hospitals and social agencies. It was soon recognized that an approach to problems of social maladjustment through an understanding of the personalities involved was valid for every form of social casework. The Smith School therefore continued after the war emergency as a graduate professional school of social work and became a charter member of the Council on Social Work Education.

The first decade of the growth of the School corresponded to the period when the mental hygiene movement was enlarging its scope to include greater focus on mental illness and mental defect, prevention of delinquency, and the development of child guidance clinics. Psychiatric social workers were eagerly sought for hospitals, community clinics, and for preventive mental hygiene work in courts, schools, and the public services. Social casework is a professional service which requires scientific knowledge and disciplined skill. Competent practice calls for the exercise of judgment and discretion.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

MASTER OF SOCIAL WORK

Educational Plan

The educational plan of the Smith College School for Social Work is based on the premise that there is a basic core of knowledge and skill in social work which transcends the specializations. The educational program is so planned as to offer sound orientation in the broad aspects of social work and the development of professional competence in the practice of social casework. Graduates are prepared to hold casework positions in a wide variety of private and public agencies and to advance to supervisory and administrative responsibilities.

Classroom Instruction

Academic study is designed to provide such knowledge from the disciplines of medicine, psychiatry, psychology, law, and the social sciences as is required for the practice of social work. The courses in the methods of social casework integrate this factual knowledge and develop the principles and skills inherent in practice. Other courses in the broad field of social work cover theory and method in such areas as public welfare, child welfare, group work, administration, and community organization. Basic considerations in carrying on research in social casework are reviewed in a course that serves as an introduction for individual work on a thesis.

In order to carry out this educational policy the curriculum consists of a relatively few units of instruction covering basic areas rather than being broken up into many elective courses. For example, the basic course in public welfare aims to develop a sound comprehension of the scope and objectives of the field and to give a working knowledge of the varied individual programs on the federal, state, and local levels as they operate to meet the total needs of individuals. In the same way the casework courses demonstrate the application of casework principles in family casework, child welfare, psychiatric social work, and medical social work.

Courses offered in any one term are planned as a sequence and to achieve a total integration. Emphasis is placed on the discussion rather than the lecture method of teaching in the endeavor to train for independent and resourceful thinking. The educational process is strengthened by the fact that all the students live together on the campus of Smith College during the summer session and thereby are encouraged in continuous group thinking, mutual criticism, and discussion of the problems in the field of social work.

Field Instruction

Field work is an integral part of the curriculum, and academic credit is given for it. Students are assigned to agencies in small groups for a long and continuous practice period. This enables the student to become a participating member of the agency and community, and furthers the development of a professional attitude and point

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

of view. Responsible participation under guidance during the field work gives opportunity to develop competence and self-reliance in casework practice.

Fifty-three agencies in twenty-two cities are affiliated with the School. These are located in large urban centers such as Community Service Society in New York, Judge Baker Guidance Center in Boston, and in smaller communities, thereby providing contrasting experience in the two winter field placements. Students are placed under a supervisor who is highly qualified as practitioner and teacher. Members of the staff, administrators, consulting psychiatrists, and research specialists participate in the educational program. These factors assure good theoretical teaching as well as the acquisition of sound and skillful methodology.

Carefully selected and supervised reading is assigned to supplement and enrich the practice period in the field. In addition to individual instruction each agency is asked to offer a seminar throughout the winter.

During the field work period, thesis subjects are selected and developed under the guidance of members of the School faculty. The preparation of a thesis is regarded as part of a student's training for a profession that looks to research for advancement of its theory and practice.

Continuous supervision from the School is maintained throughout the field work period by regular visits of faculty.

Curriculum

Plan A covers three summer sessions in academic study on the Smith campus and two winter field work sessions in agencies selected by and responsible to the School for the provision of a sound educational experience.

Plan B covers two summer sessions of academic study at the School and an intervening winter session in field work. It is designed for students who have had adequate graduate preparation or satisfactory supervised employment in an approved casework agency.

Plan C admits persons for a single summer session. Full credit will be given toward the degree provided the student is accepted for readmission to complete the course within a period of two years.

The School *Bulletin* giving full details for the coming year will be sent upon request.

Degrees

The Trustees of Smith College, on the recommendation of the faculty, grant the degree of Master of Social Work (M.S.W.) on the following conditions: (a) completion of the period of residence, namely, a minimum of three sessions of full-time work; (b) satisfactory completion of the courses required, unless exempted by examination when advanced work may be substituted; (c) satisfactory completion of a thesis.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Admission

The Smith College School for Social Work is open to men and women graduates of approved colleges who have completed at least twenty semester hours in the social and biological sciences. Inquiries and requests for applications for admission should be addressed to the Committee on Admission, Smith College School for Social Work, Northampton.

Expenses

The fee for each summer session is \$400 which covers tuition, room, and board. For each winter session the fee is \$200.

During the periods of field work the students are personally responsible for their own maintenance and may not accept salaried positions.

Scholarships

A number of special stipends and scholarships are available for students accepted by the School. Certain hospitals offer internships which cover all living expenses of students; field work agencies grant several scholarships to apply toward maintenance. Several stipends of \$1,800 to \$4,200 (plus tuition) are granted, upon recommendation of the School, by the United States Department of Health, Education, and Welfare and other governmental agencies. No qualified candidate should be discouraged from making application because of financial limitations.

Calendar 1966-1968

First Session	June to September 1966
Second Session	September 1966 to June 1967
Third Session	June to September 1967
Fourth Session	September 1967 to June 1968
Fifth Session	June to September 1968

Seminars

The School offers a series of two-week seminars in July open to experienced social workers and limited to twenty-five members. The seminars are conducted on the discussion method under the leadership of outstanding practitioners.

PROGRAM OF ADVANCED STUDY

The expanded Program of Advanced Study is open to graduates of approved schools of social work who have completed a minimum of three years of practice in a qualified casework agency and who demonstrate capacity for increased responsibility

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

and leadership. The Program consists of a third postgraduate year of clinical study and practice leading to a certificate, and a new clinical doctorate leading to the degree of Doctor of Social Work (D.S.W.).

Third-Year Certificate

This sequence offers formal course instruction, supervised clinical experience, and independent study. Seminars in casework and psychiatry are designed to improve the student's mastery of casework principles through a deepened understanding of the dynamics of personality and social environment and of treatment methods. Seminars in teaching method and administrative process examine the educational and psychological principles involved. Agencies, clinics, and hospitals that are outstanding as teaching centers are used for field work.

Doctor of Social Work

The doctoral sequence, which includes three summers and two winters, is oriented to the advanced preparation of casework practitioner-investigators. The program of study offers formal course instruction, supervised clinical practice, clinical research training, and opportunity to pursue a formal independent investigation. Designed to enhance career efforts to discover and articulate knowledge about practice theory and methods, this sequence includes additional special seminars in social science and research.

Alumnae Association

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Vice-President, MRS HOWARD K. HALLIGAN, 489 Highland Avenue, Upper Montclair, N.J. 07043

Clerk, MRS ROGER E. TITUS, Shore Acres, South Dartmouth, Mass. 02748

Treasurer, MRS E. THAYER DRAKE 3D, 6 Ardsley Terrace, Irvington, N. Y. 10533

Directors:

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MRS CARLTON G. CHAMPE, 1 Gracie Square, New York, N. Y. 10028 (Chairman of Clubs)

MRS HENRY CHAUNCEY, Rosedale Road, Princeton, N. J. 08541

MRS SHERBURN E. EDGERLY, 154 Chestnut Street, Englewood, N. J. 07631 (Finance Chairman)

MISS NELL HIRSCHBERG, 1500 Park Drive, Raleigh, N. C. 27605

MRS ANSON C. MOORE, 1080 Glen Oaks Boulevard, Pasadena, Calif. 91105

MRS STANLEY R. MORTON, 5 Wheeler Avenue, Worcester, Mass. 01609 (Fund Chairman)

MRS MICHAEL PENNINGTON, 483 Edgewood Drive, St. Louis, Mo. 63105

MISS DORIS SILBERT, 58 Paradise Road, Northampton, Mass. 01060 (Education Chairman)

MRS JOHN B. STEVENS, 20 Strawberry Hill, Wallingford, Conn. 06492

MRS SEYMOUR E. WHELOCK, 10 Occom Ridge, Hanover, N. H. 03755 (Chairman of Classes)

General Secretary, MRS JOHN SCOTT STELLA, Alumnae House, Northampton, Mass. 01060

General Secretary Emeritus, MISS FLORENCE H. SNOW, 179 Prospect Avenue, Princeton, N. J. 08541

General Secretary Emeritus, MRS CLIFFORD P. COWEN, 48 Ward Avenue, Northampton, Mass. 01060

Editor-in-chief of the Alumnae Quarterly, MRS RAYMOND PUTMAN, 52 Ward Avenue, Northampton, Mass. 01060

Honorary Editor Alumnae Quarterly, MISS EDITH N. HILL, 36 Bedford Terrace, Northampton, Mass. 01060

THE ALUMNAE OFFICE

FRANCES ALDEN COPELAND, A.B.

JANET EDNA DOBBS

MARGARET HAMILTON EATON, A.B.

ESTHER PROFFITT FARRELL

Associate Secretary

Director of Alumnae House

Alumnae Fund Secretary

Assistant

ALUMNAE ASSOCIATION

BEATRICE CORNELL GUTFINSKI	<i>Assistant</i>
HARRIETTE PEALE HODGDON	<i>Assistant</i>
ELEANOR HOWARD	<i>Assistant</i>
ANNE CAHILL MAHER	<i>Assistant</i>
MARY DYKA MICKIEWICZ	<i>Assistant</i>
LAVERNE SEEWALD O'CONNOR	<i>Assistant</i>
LOUISE COONEY WHITTIER, A.B.	<i>Assistant</i>
GLADYS RATTALL WOLOSS	<i>Assistant</i>

PRESIDENTS OF SMITH CLUBS

ARIZONA

- Phoenix*, Mrs Charles E. Borah, 72 E. Country Club Drive (85014)
Tucson, Mrs Samuel I. Bowditch, 4002 E. Cooper Street (85711)

CALIFORNIA

- Bay Area League*, Mrs Albert E. Kern Jr., 1960 Broadway, San Francisco (94109)
East Bay, Mrs William F. Ganong, 710 Hillside, Albany (94706)
Marin County, Mrs Harrison Dibblee Jr., Box 184, Ross
Peninsula, Mrs Peter W. Wallace, 253 Polhemus Avenue, Atherton (94025)
San Francisco, Mrs Norman A. Zilber, 235 Presidio Avenue (94115)
Los Angeles, Mrs Marshall A. Rutter, 5108 Gloria Avenue, Encino (91316)
Orange County, Mrs Herbert S. Katzenberger, 13402 Clinton Avenue, Garden Grove (92640)
Pasadena, Mrs Paul A. Erskine, 1410 Lomita Drive (91106)
San Diego, Mrs David R. Toll, 8758 La Jolla Scenic Drive, La Jolla (92037)
Santa Barbara, Mrs W. Campbell Grant, 1880 Cravens Lane, Carpinteria

CANADA

- Montreal and Province of Quebec*, Mrs Laurier L. La Pierre, 75 Chesterfield Avenue, Westmount 6
Toronto, Mrs James D. Prentice, 96 Hazelton Avenue (5)

COLORADO

- Mrs. Harry S. Silverstein, 1041 Pontiac Street, Denver (80220)

CONNECTICUT

- Darien-New Canaan*, Mrs Ervin F. Bickley Jr., 110 Sleepy Hollow Road, New Canaan (06840)
Eastern, Mrs Robert P. Anderson Jr., 19 Latham Lane, Noank (06344)
Eastern Fairfield County, Mrs Philip H. Smith, 18 Cold Spring Road, Easton (06612)
Greenwich, Mrs Allan F. Ayers Jr., Meadow Road, Riverside (06878)
Hartford, Mrs Charles S. Sherrill, 49 Smallwood Road, West Hartford
New Haven, Mrs Lloyd Elston, Cleft Rock Lane, Woodbridge
Western, Mrs Wilbur H. Caney Jr., 75 Woodbury Road, Watertown (06795)

ALUMNAE ASSOCIATION

DELAWARE

Mrs Carl S. Oldach, 1100 Berkeley Road, Westover Hills, Wilmington (19807)

D.C., WASHINGTON

Mrs John F. Latimer, 3601 Connecticut Avenue, N.W. (20008)

ENGLAND

London, Mrs Arthur P. C. Lyons, 24 Frogmal Lane (N.W. 3)

FLORIDA

Fort Lauderdale, Mrs Henry Couchman, 1712 S.E. 13th Street

Jacksonville, Mrs R. Holmes Tucker, 3127 Doctor's Lake Drive, Box 35A, Orange Park

Miami, Mrs J. Laurence Carroll, 4031 Kiaora Avenue, Coconut Grove (33133)

Palm Beaches, Mrs Ernest Davis, 728 St Lucie Crescent, Stuart

Sarasota, Mrs Julian L. Schwabacher, 3533 Tangier Terrace (33579)

West Florida, Mrs Bart E. Bryan, 2616 48th Street, S. St. Petersburg

Winter Park-Orlando, Mrs Richard H. Hart, 1012 Catalpa Lane, Orlando (32806)

FRANCE

Paris, Mrs Marcel de Gallaix, 14 Rue George Sand (16)

GEORGIA

Atlanta, Mrs Robert A. Hatcher, 914 East Rock Springs Road, N.E. (30306)

HAWAII

Mrs Kenneth Chinn, 3039 Lopeka Place, Honolulu

ILLINOIS

Central, Mrs Ernest M. Lyman, 1009 S. Orchard Street, Urbana

Chicago, Mrs Thomas A. Kelly, 1320 N. State Parkway (60610)

North Shore, Mrs Herman W. Stein Jr., 304 Cumnor Road, Kenilworth (60043)

North Side, Mrs Charles S. Potter, 209 Lake Shore Drive (60611)

South Side, Mrs Edwin N. Irons, 5830 Stony Island Avenue (37)

West Suburban, Mrs De Witt Stillman, 117 S. Park Avenue, Hinsdale

INDIANA

Indianapolis, Mrs Edmund C. Walsh 3d, 7475 Holliday Drive, E.

IOWA

Central, Mrs Joseph M. O'Reilly Jr., 3920 Grand Avenue, Des Moines (50312)

KENTUCKY

Mrs David Gray, 4021 St. Ives Court, Louisville (40207)

LOUISIANA

Mrs Richard T. Harriss 3d, 1440 Joseph Street, New Orleans (70155)

ALUMNAE ASSOCIATION

MAINE

Eastern, Ruth Gray (sec.), 70 N. Fourth Street, Old Town

Western, Mrs E. Halsey Smith, 328 Blackstrap Road, Falmouth (04105)

MARYLAND

Baltimore, Mrs George D. Penniman, 1004 Poplar Hill Road (21210)

MASSACHUSETTS

Berkshire County, Mrs John Kittredge, 233 Holmes Road, Pittsfield

Boston League, Mrs Reginald Robinson, 250 Beacon Street, Boston (02116)

Andover, Mrs John K. Fauver, 8 Sunset Rock Road (01810)

Belmont, Mrs Robert B. Woodward, 24 Kenmore Road

Boston, Mrs John G. Cornish, 106 Clyde Street, Chestnut Hill (02167)

Boston Junior Group, Mrs John H. Hobbs, Weston Road, Lincoln Center

Cambridge, Mrs Jacek von Henneberg, 11 Shepard Street (02138)

Lexington, Mrs Bertrand Fox, 18 Edgewood Road (02173)

Newton, Mrs Charles Macdonald, 187 Mt. Vernon Street, Dedham

North Shore, Mrs Redmond White, 28 Boyles Street, Beverly

South Shore, Mrs John H. Meyer, 181 Border Street, Cohasset (02025)

Wellesley, Mrs Lamson Blaney, 122 Abbott Road, Wellesley Hills (02181)

Winchester, Mrs Thomas L. Raleigh Jr., 41 Wildwood Street (01890)

Cape Cod, Mrs Sidney C. Bedwell, 33 Shore Street, Falmouth

Fitchburg, Mrs Tuure Tenander, 91 Ryefield Road

Franklin County, Mrs George C. Lunt 2d, Box 293, Deerfield

Greater Lowell, Mrs Francis J. Sheehy, 117 Clark Road, Lowell

Hampshire County, Mrs Roger P. Kellogg, 116 Vernon Street, Northampton (01060)

Holyoke, Gertrude Dunn, 274 Oak Street

Merrimack Valley, Mrs Webster B. Brockelman Jr., Highland Road, R.F.D. 1, Boxford

Southeastern, Mrs Stanley S. Knight, 53 Middle Street, South Dartmouth (02748)

Springfield, Mrs Dudley N. Hartt Jr., Box 27, Meeting House Lane, Wilbraham (01095)

Worcester, Mrs Richard Prouty, 466 Salisbury Street, Holden (01520)

MICHIGAN

Ann Arbor, Mrs Guy C. Larcom Jr., 2311 Brockman (48104)

Birmingham, Mrs John Denio, 650 Cranbrook Road, Bloomfield Hills

Detroit, Mrs Gerard C. Mooney, 848 Washington, Grosse Pointe (48230)

Grand Rapids, Mrs Rufus Teesdale, 2830 Woodcliff S. E. (49506)

MINNESOTA

Minneapolis, Mrs Bruce B. Dayton, Box 1192, R. 2, Wayzata (55391)

St. Paul, Mrs Frank P. Leslie Jr., 5 Beebe Avenue

ALUMNAE ASSOCIATION

MISSOURI

- Kansas City*, Mrs George William Sherman 2d, 7240 Linden Street, Prairie Village,
Kansas
St. Louis, Mrs Willard Clark, 50 Godwin Lane (24)

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- Omaha*, Mrs Raymond I. Howell, 1209 Robertson Drive (68114)

THE NETHERLANDS

- Mrs Hans C. Blauwkuip, Burg Lefevre de Montignylaan 265, Rotterdam

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- Mrs F. Fuller Ripley, 12 High Street, Troy

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- Monmouth County*, Mrs Spencer W. Pitts, 33 Blossom Cove Road, Red Bank
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NEW YORK

- Albany*, Mrs Wayne L. Henning, 125 S. Lake Avenue, Albany
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Mohawk Valley, Mrs Stuart W. Kellogg, Fountain Street, R.D. 2, Clinton
New York, Mrs Edward T. Chase, 1192 Park Avenue (10028)
Queensborough,
Rochester, Mrs Hugh E. Cumming, 209 Whitewood Lane
Schenectady, Mrs Pieter von Herrmann, 1470 Keyes Avenue (12309)
Syracuse, Mrs Leonard C. Maier Jr., 6790 Knollwood Road, Fayetteville (13066)
Taconic, Mrs Harold B. Hoskins, Millbrook (12545)
Westchester, Mrs Albert Ruth, Ardsley-on-Hudson (10503)

NORTH CAROLINA

- Mrs Herbert L. Bodman Jr., Coker Drive, Chapel Hill

OHIO

- Akron*, Mrs C. Welles Fendrich Jr., 2678 Walnut Ridge Road (44313)
Cincinnati, Mrs Warren Cooke, 77 Central Terrace (45215)
Cleveland, Mrs Albert B. Harding, Hunting Trail, Chagrin Falls (44022)
Columbus, Mrs Eugene C. D'Angelo Jr., 2118 West Lane Avenue (43221)
Lakewood, Mrs Clyde H. Butler, 14923 Edgewater Drive (44107)
Toledo, Mrs Maurice D. O'Connell, 3333 Kirkwall Road (43606)

ALUMNAE ASSOCIATION

OKLAHOMA

Oklahoma City, Mrs Hal L. Malone 2d, 2700 N.W. 63d

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Mrs Peter Koerner, 2630 S.W. Davenport Lane, Portland (97201)

PENNSYLVANIA

Central, Mrs John Trickey Jr., R.D. 5, Carlisle

Lehigh Valley, Mrs J. Bowling Wills, 520 N. 27th Street, Allentown

Philadelphia, Mrs S. Page Bohaker, 830 Montgomery Avenue, Apt. 403, Bryn Mawr (19010)

Pittsburgh, Mrs Richard F. Miller, 1043 Firwood Drive (15216)

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Mrs Jack Spencer, 18 Brentonwood Avenue, Barrington (02806)

TENNESSEE

Chattanooga, Mrs William L. Gray, Lulu Lake Road, Lookout Mountain

Nashville, Mrs Eric M. Chazen, 156 Carnavon Parkway

TEXAS

Dallas, Mrs William M. Hibbitts, 4009 Windsor Avenue

Fort Worth, Mrs Judge M. Lyle, 3901 Westcliffe Road, S. (76109)

Houston, Mrs David W. Peake, 5304 Shady River Road (77027)

San Antonio, Mrs Jack E. Finks, 777 Terrell Road (78209)

South Texas, Mrs Sanford Glanz, 209 Chenoweth Drive, Corpus Christi

VERMONT

Mrs William A. Onion, Castleton (05735)

VIRGINIA

James River, Mrs Francis V. Lowden, 110 College Road, Richmond (23229)

WASHINGTON

Seattle, Mrs J. Vernon Williams, 1226 Federal Avenue, E. (98102)

WISCONSIN

Madison, Mrs Leonard P. Eager Jr., 236 W. Main Street, Evansville

Milwaukee, Mrs Alan A. Floyd, 6819 N. Barnett Lane (17)

Summary of Students in College

1965-1966

FRESHMAN CLASS (1969)	621
SOPHOMORE CLASS (1968)	611
Paris	1
Italy	1
JUNIOR CLASS (1967)	597
France	30
Guest Students	3
Geneva	24
Guest Students	9
Germany	14
Guest Students	1
Italy	12
Guest Students	4
Spain	13
Guest Students	5
Toronto	3
SENIOR CLASS (1966)	478
Out of residence	2
TOTAL UNDERGRADUATES	2307
GRADUATE STUDENTS	135
FOUR-COLLEGE STUDENTS	133
GRADUATE	28
UNDERGRADUATE	105
NONCOLLEGIATE STUDENTS	3
TOTAL	2578

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1966	Class of 1967	Class of 1968	Class of 1969	Graduate Students
Alabama	0	2	0	2	0
Alaska	0	1	1	0	0
Arizona	0	2	1	2	1
Arkansas	0	0	1	2	0
California	19	21	22	32	2
Colorado	3	4	5	4	3
Connecticut	55	66	49	45	2
Delaware	5	4	3	5	0
District of Columbia	7	8	9	13	0
Florida	3	5	6	7	0
Georgia	1	4	3	4	1
Hawaii	1	2	2	1	1
Idaho	1	1	0	0	0
Illinois	16	28	23	34	3
Indiana	1	2	9	13	1
Iowa	2	4	1	4	0
Kansas	4	0	4	2	0
Kentucky	4	6	3	3	0
Louisiana	3	2	5	6	2
Maine	2	2	6	8	0
Maryland	11	22	17	13	0
Massachusetts	76	69	105	89	52
Michigan	5	6	2	8	1
Minnesota	2	9	10	11	2
Mississippi	1	2	1	0	2
Missouri	15	10	12	7	0
Montana	0	4	2	0	0
Nebraska	3	2	1	1	0
Nevada	0	0	0	2	0
New Hampshire	4	5	9	4	2
New Jersey	35	60	55	41	1
New Mexico	1	0	2	1	0
New York	70	103	104	110	14
North Carolina	2	3	4	3	1
North Dakota	0	0	1	1	0
Ohio	23	36	27	36	3
Oklahoma	0	3	4	4	0

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1966	Class of 1967	Class of 1968	Class of 1969	Graduate Students
Oregon	3	2	2	4	0
Pennsylvania	34	23	29	34	5
Rhode Island	6	3	10	2	0
South Carolina	1	1	0	4	1
South Dakota	1	0	1	0	0
Tennessee	3	7	5	6	1
Texas	12	15	4	7	2
Utah	0	0	0	0	2
Vermont	2	4	7	7	2
Virginia	17	18	16	19	0
Washington	1	5	3	0	0
West Virginia	1	0	0	1	1
Wisconsin	3	2	4	4	2
Wyoming	0	0	0	1	0
	<hr/> 459	<hr/> 578	<hr/> 599	<hr/> 607	<hr/> 110

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1966	Class of 1967	Class of 1968	Class of 1969	Graduate Students
Argentina	1	0	0	0	0
Belgium	1	0	0	1	0
Bermuda	0	2	0	0	0
Brazil	1	1	1	0	0
Canada	2	6	1	3	1
Colombia	0	0	0	1	0
Egypt	0	0	0	1	0
England	3	1	0	1	3
France	0	0	2	0	1
Germany	1	0	0	1	2
Greece	0	2	0	0	0
Hong Kong	0	1	0	1	0
India	2	1	0	0	1
Ireland	1	0	0	0	0
Italy	0	0	1	1	2
Japan	2	0	1	0	1
Kenya	0	0	0	2	0
Korea	0	0	0	0	1
Lebanon	0	0	0	1	0
Liberia	1	0	0	0	0
Mexico	0	0	0	1	0
Netherlands	0	0	1	0	0
Nigeria	1	0	0	0	0
Norway	1	0	0	0	1
Pakistan	0	1	0	0	0
Panama Canal Zone	0	0	1	0	0
Philippines	0	0	0	0	2
Singapore	0	1	0	0	0
South Africa	0	0	0	0	1
South Vietnam	0	0	1	0	0
Sweden	0	0	1	0	0
Switzerland	0	0	1	0	0
Taiwan	1	0	0	0	6
Tanzania	1	0	0	0	0
Thailand	0	0	0	0	1
Trinidad	0	1	0	0	0
Turkey	0	1	0	0	1
Venezuela	0	0	0	0	1
Virgin Islands	0	1	1	0	0
	—	—	—	—	—
	19	19	12	14	25

Schedule of Midyear Examinations for the Year 1965-66

This schedule should be consulted before courses are elected.

The term "sectioned course" as used in this schedule means a course in which there are *no hours of meeting in common* for all the students of the course (examinations in courses which have *fixed hours for lecture* fall within that time group unless they are *listed separately*).

Examinations for courses not yet scheduled will be arranged before the examination period.

	Tuesday, Jan. 18	Wednesday, Jan. 19	Thursday, Jan. 20	Friday, Jan. 21	Saturday, Jan. 22
8:00-10:20	All classes scheduled for W Th F 2 except sectioned courses	Mathematics 12 Mathematics 13 Mathematics 21 Mathematics 22a	All classes scheduled for Th F S 10 except sectioned courses	English 211 General Literature 291	All classes scheduled for W Th F 3 except sectioned courses
10:45-1:05	All classes scheduled for M T W 2 except sectioned courses	All classes scheduled for M T W 10 except sectioned courses	All classes scheduled for Th F S 12 except sectioned courses	All classes scheduled for Th F S 11 except sectioned courses	Philosophy 21a Russian 11 Russian 21 Russian 31
2:30-4:50	Government 11	Italian 11 Italian 11b Spanish 11 Spanish 11b Spanish 12 Spanish 13 Spanish 25	German 11 German 11b German 12 German 26	All classes scheduled for M T 4 except sectioned courses	All classes scheduled for M T W 9 except sectioned courses

Schedule of Midyear Examinations for the Year 1965-66

Continued

	<i>Monday, Jan. 24</i>	<i>Tuesday, Jan. 25</i>	<i>Wednesday, Jan. 26</i>	<i>Thursday, Jan. 27</i>
8:00-10:20	All classes scheduled for Th F 4 except sectioned courses	English 31a Music 21	French 13 French 22a	Philosophy 11 Philosophy 24
10:45-1:05	All classes scheduled for M T W 3 except sectioned courses	All classes scheduled for M T W 12 except sectioned courses	Psychology 11a Psychology 30a	All classes scheduled for Th F S 9 except sectioned courses
2:30-4:50	French 11b French 12 French 15 French 16 French 26 French 27 French 311a	Religion 21	All classes scheduled for M T W 11 except sectioned courses	History 11

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FORMS OF BEQUESTS

Gifts to the College may be restricted to certain uses as endowed funds or additions to material equipment, or may be given without restriction. Donors may discuss special conditions pertaining to a bequest with the College Treasurer.

UNRESTRICTED BEQUEST

I give, devise, and bequeath to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts, the sum ofdollars, to be applied to the general uses and purposes of the said institution.

RESTRICTED BEQUEST

I give and bequeath to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts, the sum ofdollars (to be known as theFund); the principal to be added to the endowment funds of the College and the income to be used for * (or, "the principal to be used for the building of a"; or, "the principal to be used for improvements to the")

RESIDUARY CLAUSE

I give and bequeath and devise to The Trustees of the Smith College, a charitable corporation established under the laws of the Commonwealth of Massachusetts, all the rest, residue and remainder of my estate whether real, personal or mixed wherever situate and to which I may be legally or equitably entitled at my decease; or over which I have any power of disposition; (to be known as the Fund; to be used for; etcetera.)

CONTINGENCY CLAUSE

In case of the failure or lapse of any legacy or devise herein such that the property so bequeathed or devised would pass by intestacy, I direct that in lieu thereof such property shall pass to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts.

*e.g., scholarships, faculty improvement, etc.

Smith College Bulletin

THE CATALOGUE NUMBER

1966-1967

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Smith College Bulletin

The Catalogue Number

1966-1967

NORTHAMPTON, MASSACHUSETTS

Visitors

Visitors are always welcome at the College. Student guides, whose headquarters are College Hall 1, are available for conducting tours of the campus. Their services may be reserved in advance by application to the Board of Admission.

Candidates for admission and pre-college students are urged to secure appointments in advance with the Director or Associate Director of Admission and, if they are interested in scholarship and self-help opportunities, with the Director of Scholarships and Student Aid.

Administrative offices in College Hall are open Monday through Friday from 8:30 A.M. to 4:30 P.M. At other times, including holidays, officers and staff are available only if an appointment is made in advance.

Correspondence

Inquiries of various types concerning Smith College may be made of the following officers and their staffs, either by mail or by interview. The post office address is Northampton, Massachusetts 01060.

ADMISSION OF STUDENTS: Ave Marie McGarry, *Acting Director*

RESIDENCE & GENERAL WELFARE OF STUDENTS: Miss Helen L. Russell, *Dean of Students*

SCHOLARSHIPS, LOANS, & WORK: Mrs Linton H. Foster, *Director*

GRADUATE STUDY & FELLOWSHIPS: Mr Kenneth W. Sherk, *Director*

FOREIGN STUDENTS: Mrs Joan M. Bramwell, *Chairman of the Committee*

HEALTH OF STUDENTS: Dr Elizabeth Grimm, *College Physician*, 69 Paradise Road

ACADEMIC STANDING:

Class of 1970, Mrs George Cohen

Class of 1969, Mr William H. Van Voris

Classes of 1967 and 1968, Mrs. Michael Olmsted, *Assistant Dean*

PAYMENT OF BILLS: Mr Robert L. Ellis, *Treasurer*

DEVELOPMENT & PUBLIC RELATIONS: Mr Herbert N. Heston, *Director*

TRANSCRIPTS & RECORDS: Mrs Helen B. Bishop, *Registrar*

PUBLICATIONS: Office of the Dean, College Hall 21

SCHOOL FOR SOCIAL WORK: Mr Howard J. Parad, *Director*

ALUMNAE AFFAIRS: Mrs John Scott Stella, *General Secretary*, Alumnae House

ALUMNAE REFERENCES: Miss Alice N. Davis, *Director of the Vocational Office*

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College Calendar

FIRST SEMESTER, 1966-1967

TUESDAY, SEPTEMBER 13, 9:00 A.M., First Chapel and Upperclass Registration

WEDNESDAY, SEPTEMBER 14, 8:40 A.M., Classes begin

MOUNTAIN DAY (*holiday*), To be announced by the President

WEDNESDAY, OCTOBER 26, 8:40 A.M. — TUESDAY, NOVEMBER 1, 6:10 P.M.,
Independent Study

THURSDAY, NOVEMBER 24, Thanksgiving Day

FRIDAY, DECEMBER 16, 8:00 A.M. — TUESDAY, JANUARY 3, 8:40 A.M., Winter Recess

TUESDAY, JANUARY 3, 8:40 A.M. — SATURDAY, JANUARY 14, Reading Period

SUNDAY, JANUARY 15 — THURSDAY, JANUARY 19, Pre-examination Study

FRIDAY, JANUARY 20 — THURSDAY, JANUARY 26, Midyear Examinations

FRIDAY, JANUARY 27 — MONDAY, JANUARY 30, 8:40 A.M., Midyear Recess

SECOND SEMESTER, 1966-1967

MONDAY, JANUARY 30, 8:40 A.M., Classes begin

SATURDAY, FEBRUARY 25, Rally Day

SATURDAY, MARCH 18, 8:00 A.M. — WEDNESDAY, MARCH 29, 8:40 A.M., Spring Recess

WEDNESDAY, MAY 3 — TUESDAY, MAY 16, Reading Period

WEDNESDAY, MAY 17 — SUNDAY, MAY 21, Pre-examination Study

MONDAY, MAY 22 — SATURDAY, MAY 27, Final Examinations

SUNDAY, JUNE 4, Commencement

The Board of Trustees

THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D., L.H.D., *President* Northampton

*Term
expires*

1967 CICELY KERSHAW ROSENBERRY, A.B., A.M. (HON.), *Chairman* New York City

1967 EDWARD H. DECONINGH, A.B., S.B. Cleveland, Ohio

1967 LAURA GUNDLACH ELMENDORF, A.B., M.S. Portola Valley, California

1967 H. BRADFORD WASHBURN, JR., A.M., PH.D. (HON.), SC.D. (HON.)
Cambridge, Massachusetts

1968 J. SEELYE BIXLER, PH.D., D.D., D.C.L., L.H.D., LL.D. Jaffrey, New Hampshire

1968 RUTH SEARS CHUTE, A.M. Brookline, Massachusetts

1968 VIRGINIA CLEGG GAMAGE, A.B. Marblehead Neck, Massachusetts

1969 HARVEY BROOKS, PH.D., SC.D. (HON.) Cambridge, Massachusetts

1969 HELEN HUBERTH KEENE, A.B. Scarsdale, New York

1969 DOROTHY NEPPER MARSHALL, PH.D. Bryn Mawr, Pennsylvania

1969 CONSTANCE MORROW MORGAN, A.M. Ridgefield, Washington

1970 ALBERT H. GORDON, A.B., M.B.A. New York City

1970 ELIZABETH BELL HIGGINBOTHAM, A.B. Dallas, Texas

1970 FREDERICK SHEFFIELD, A.B., LL.B. New York City

1971 ELIZABETH FITZGERALD CUTLER, A.B. Milwaukee, Wisconsin

1971 ROBERT S. INGERSOLL, B.S. Chicago, Illinois

FLORENCE MACDONALD, A.B., *Secretary* Northampton

ROBERT LEE ELLIS, A.B., M.B.A., *Treasurer and Controller* Northampton

The Board of Counselors

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FREDERICK M. WARBURG, A.B.	New York City
VIRGINIA WING, A.B.	Cambridge, Massachusetts

THE FACULTY

THOMAS CORWIN MENDENHALL, B.LITT. PH.D., LL.D., L.H.D.	<i>President and Professor of History</i>
LAURA WOOLSEY LORD SCALES, B.L., L.H.D., LITT.D.	<i>Warden Emeritus (1944)</i>
FRANK HAMILTON HANKINS, PH.D., L.H.D.	<i>Professor Emeritus of Sociology (1946)</i>
H. LOUISA BILLINGS, A.M.	<i>Associate Professor Emeritus of Physics (1947)</i>
SUSAN MILLER RAMBO, PH.D.	<i>Professor Emeritus of Mathematics (1948)</i>
ELEANOR SHIPLEY DUCKETT, PH.D., D.LITT., L.H.D.	<i>Professor Emeritus of Classical Languages and Literatures (1949) and Sophia Smith Fellow</i>
ELIZABETH FAITH GENUNG, M.S. IN AGR.	<i>Associate Professor Emeritus of Bacteriology (1950)</i>
ABBIE MABEL O'KEEFE, M.D.	<i>Associate Physician Emeritus (1950)</i>
ARTHUR WARE LOCKE, A.M.	<i>Professor Emeritus of Music (1952)</i>
ESTHER LOWENTHAL, PH.D.	<i>Professor Emeritus of Economics (1952)</i>
AGNES CARR VAUGHAN, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures (1952) and Sophia Smith Fellow</i>
KATE RIES KOCH, A.M., M.L.D.	<i>Associate Professor Emeritus of Landscape Architecture (1952)</i>
ANACLETA CANDIDA VEZZETTI, DOTTORE IN FILOSOFIA E PEDAGOGIA	<i>Associate Professor Emeritus of Italian Language and Literature (1952)</i>
GERTRUDE GOSS	<i>Associate Professor Emeritus of Physical Education (1952)</i>
SAMUEL RALPH HARLOW, PH.D., L.H.D., LITT.D.	<i>Professor Emeritus of Religion and Biblical Literature (1953)</i>
VERA A. SICKELS, A.M.	<i>Professor Emeritus of Speech (1953)</i>
ELIZABETH ANDROS FOSTER, PH.D.	<i>Professor Emeritus of Spanish Language and Literature (1953)</i>
ROBERT MERRILL DEWEY, A.M.	<i>Secretary Emeritus of the Faculty (1953)</i>

Explanation of marks before instructors' names: †absent for the year; *absent for the first semester; **absent for the second semester; §Director of a Junior Year Abroad; †appointed for the first semester; ‡appointed for the second semester.

THE FACULTY

MARGARET BRACKENBURY CROOK, B.A., DIPLOMA IN ANTHROPOLOGY	<i>Associate Professor Emeritus of Religion and Biblical Literature (1954) and Sophia Smith Fellow</i>
MYRA MELISSA SAMPSON, PH.D.	<i>Professor Emeritus of Zoology (1955)</i>
MARY ELLEN CHASE, PH.D., LITT.D., L.H.D.	<i>Professor Emeritus of English Language and Literature (1955)</i>
HAROLD UNDERWOOD FAULKNER, PH.D., L.H.D.	<i>Professor Emeritus of History (1955)</i>
HALLIE FLANAGAN DAVIS, A.M., L.H.D., D.F.A.	<i>Professor Emeritus of Drama (1955)</i>
K. FRANCES SCOTT, PH.B., M.D.	<i>Associate Professor Emeritus of Hygiene (1955)</i>
MIGUEL ZAPATA Y TORRES, PH.D.	<i>Associate Professor Emeritus of Spanish Language and Literature (1957)</i>
WILLIAN BEAUMONT SCATCHARD, B.MUS., B.S.	<i>Associate Professor Emeritus of Music (1957)</i>
SETH WAKEMAN, PH.D.	<i>Professor Emeritus of Education and Child Study (1958)</i>
VERA BROWN HOLMES, PH.D., LITT.D. (HON.)	<i>Professor Emeritus of History (1958) and Sophia Smith Fellow</i>
C. PAULINE BURT, PH.D., SC.D. (HON.)	<i>Professor Emeritus of Chemistry (1958)</i>
BENJAMIN MARTIN SHAUB, PH.D.	<i>Associate Professor Emeritus of Geology and Geography (1958)</i>
MARGARET ALEXANDER MARSH, A.M.	<i>Professor Emeritus of Sociology and Anthropology (1959)</i>
ESTHER CLOUDMAN DUNN, PH.D., LITT.D.	<i>Professor Emeritus of English Language and Literature (1960)</i>
CLARENCE KENNEDY, PH.D.	<i>Professor Emeritus of Art (1960)</i>
DOROTHY SEARS AINSWORTH, PH.D., SC.D. (HON.)	<i>Professor Emeritus of Physical Education (1960)</i>
MADELEINE GUILLTON, LIC. ÈS. L., A.M.	<i>Associate Professor Emeritus of French Language and Literature (1960)</i>
SARA BACHE-WIIG, PH.D.	<i>Associate Professor Emeritus of Botany (1960)</i>
FRANCES CAMPBELL MCINNES, A.M., M.D.	<i>Associate Physician Emeritus (1960)</i>
SIDNEY RAYMOND PACKARD, PH.D., JUR.D. (HON.), L.H.D.	<i>Professor Emeritus of History (1961)</i>

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Lecturer in Astronomy
Lecturer in English Language and
Literature

Lecturer in Astronomy
Lecturer in English Language and
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Lecturer in Sociology and Anthropology
Lecturer in Art

Lecturer in Sociology and Anthropology
Lecturer in Education and Child Study

Lecturer in Russian Language and
Literature

Lecturer in the Biological Sciences
Lecturer in English Language and
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Lecturer in French Language and
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Instructor in French Language and Literature
Instructor in Physical Education
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Instructor in Classical Languages and Literatures
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Instructor in Physical Education
Instructor in Physical Education
Instructor in Physical Education
Instructor in Physical Education
Instructor in Physical Education
Instructor in French Language and Literature
Instructor in Music
Instructor in Hispanic Studies
Instructor in English Language and Literature
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Instructor in Theatre and Speech
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	<i>Director of Day Schools</i>
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CLAIRE CUTTEN MANWELL, A.B., M.D.	<i>Physician</i>
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Lamont House

Cutter House

Wilder House

Lawrence House

Tyler House

Morrow House

Chapin House

Dewey House, Clark House

Capen House

Sessions House

Baldwin House

Gillett House

Albright House

Martha Wilson House

Parsons House, Parsons Annex

Dawes House

Hopkins Group

Franklin King House

Talbot House

Comstock House

Tenney House

Morris House

Jordan House

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Washburn House

Haven House, Wesley House

Cushing House

Northrop House

Ziskind House

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TENURE AND PROMOTION (*elected*)

The President (*chairman*), the Dean, Mr Chinoy (1967), Miss Robinton (1968), Mr Leo Weinstein (1969), Miss Gertrude Smith (1969), Mr Cohn-Haft (1971).

FACULTY CONFERENCE (*elected*)

Mr Gotwals (1967), Mr Harris (1968 *2nd semester*), **Mrs Hobbs (1968), Mrs Hoyt (1969), Mr McCartney (1970), Miss Kenyon (1971).

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Mr Chinoy (*chairman*), Mr Henderson, Mr Jules, Mr Kiteley, Mrs Musgrave, Miss Robinton.

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The Dean (*chairman*), the Dean of Students, the Class Deans, the Assistant Dean, the Registrar, the College Physician, Mr Harned, Mr Haskell, Mr Schumann.

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REGISTRATION OF STUDENTS

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†Absent for the year

**Absent for the second semester

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HONORS

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HONORARY DEGREES

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JUNIPER LODGE

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Mr Mair (*chairman*), Mr Aaron, Mr Connelly, Mr Fruchtbaum, Mr Lazerowitz, Mr Rose, Mr Rowe, Mr Carpenter (*secretary*).

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MOTION PICTURES

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- I THE HUMANITIES: Mr Dimock
- II SOCIAL SCIENCES AND HISTORY: Mr Weinstein
- III NATURAL SCIENCES AND MATHEMATICS: Mr Josephs

History of Smith College

Smith College began in the conscience of a New England woman. The sum of money with which the first land was bought, the first buildings erected, and the foundations of the endowment laid was the bequest of Sophia Smith who, finding herself at the age of sixty-five the sole inheritor of a large fortune, left it for the founding of a college for women because after much perplexity, deliberation, and advice, she had concluded that thus she could best fulfill a moral obligation.

The advice had its inception in the mind of a New England minister. From John Morton Greene, Sophia Smith received suggestions which she pondered and discussed, and from among which she finally accepted that which we must acclaim as the wisest and most beneficent. The idea that Mr. Greene presented and Sophia Smith adopted is clearly expressed in a passage in Sophia Smith's will that must be regarded as their joint production, drafted by him, amended and approved by her. The language is as follows:

I hereby make the following provisions for the establishment and maintenance of an Institution for the higher education of young women, with the design to furnish for my own sex means and facilities for education equal to those which are afforded now in our Colleges to young men.

It is my opinion that by the higher and more thorough Christian education of women, what are called their "wrongs" will be redressed, their wages adjusted, their weight of influence in reforming the evils of society will be greatly increased, as teachers, as writers, as mothers, as members of society, their power for good will be incalculably enlarged.

Later, after enumerating the subjects which still form a vital part of the curriculum of the College, she adds: "And in such other studies as coming times may develop or demand for the education of women and the progress of the race, I would have the education suited to the mental and physical wants of woman. It is not my design to render my sex any the less feminine, but to develop as fully as may be the powers of womanhood, and furnish women with the means of usefulness, happiness and honor, now withheld from them." She further directed that "without giving preference to any sect or denomination, all the education and all the discipline shall be pervaded by the Spirit of Evangelical Christian Religion."

When one considers what would today be regarded as the somewhat narrow and puritanical type of culture in which the authors of these sentences were living, one cannot fail to be impressed by their wisdom, liberality, and farsightedness. The general terms in which the purposes of women's education are defined are perfectly

NOTE:—Among the sources of this account are the historical addresses given by President William Allan Neilson on the Fiftieth Anniversary and by Ada Comstock Notestein '97 (former Dean of Smith and President of Radcliffe) on the Seventy-Fifth Anniversary of the College.

HISTORY OF SMITH COLLEGE

valid today. Provision is made for change of outlook and development in the scope of education. While the fundamentally religious interest of the founder is stressed, the College is kept clear of entanglement with institutional Christianity.

I

It is one thing to state an ideal and give a commission, it is another to carry them out. Laureus Clark Seelye in 1873 undertook the presidency of the new college, and in 1875 Smith College was opened with fourteen students. His inaugural address laid down the main lines of educational policy on which the new college was to run, and again it is amazing to note how little these have to be modified to describe the College of today. There is the same high standard of admission, matching that of the best colleges for men, the same breadth in the curriculum, the same interest in literature, art, music, and what are now classed as the natural and social sciences. What we are less likely to note is the faith needed to establish these standards and to stick to them in an atmosphere of skepticism and ridicule.

For thirty-five years President Seelye carried the College forward. Its assets grew from the original bequest of about \$400,000 to over \$3,000,000; its faculty from half a dozen to one hundred twenty-two; its student body from fourteen to 1635; its buildings from three to thirty-five. These figures are a testimony to his remarkable financial and administrative ability, yet they are chiefly important as symbols of a greater achievement. With few educational theories—none of them revolutionary—he had set going a process for the molding of the minds and spirits of young women, had supervised the process for a generation, and had stamped upon several thousand graduates the mark of his own ideals and his own integrity.

II

It is hard to follow the king, and the problem which faced President Seelye's successor was no easy one. The growth of the College had acquired a strong momentum, and numbers increased of themselves; Marion Le Roy Burton's task was to perfect the organization for taking care of these numbers. This meant the modernizing of the business methods of the administration, the improvement of the ratio of instructors to students, the raising of salaries to retain and improve the staff, the providing of more adequate equipment, and the revision of the curriculum. The seven years of his service saw the further growth of the College to over 1900 students, the increase of its assets by over \$1,000,000, and substantial progress in educational efficiency. The business reorganization was well begun when in 1917 President Burton accepted the presidency of the University of Minnesota.

III

Now one of the largest women's colleges in the world, Smith College faced problems which it shared with both colleges and universities. President William Allan Neilson set about to develop all the advantages which only a large institution can offer, and at the same time to avoid any disadvantages which might be inherent in

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the size of the institution. While the number of instructors was constantly increased, the number of students was held to approximately two thousand. With the construction of further dormitories, each one of them housing sixty or seventy students in accordance with the original "cottage plan" of the founders, it became possible for all students to live "on campus." An expanded administrative system provided a separate Dean for each college class, a staff of five resident physicians, and a Director of Vocational Guidance and Placement. In addition, the curriculum was revised under President Neilson's guidance in order to provide a pattern still familiar in institutions throughout the country: a broad general foundation in various fields of knowledge followed by a more intensive study of a major subject.

There were other innovations. The School for Social Work resulted from a suggestion that the College give training in psychiatric social work and thus serve in the rehabilitation of veterans of World War I. The Smith College Day School and the Elisabeth Morrow Morgan Nursery School gave students in education a field for observation and practice teaching. The Junior Years Abroad, Special Honors programs, and interdepartmental majors in science, landscape architecture, and theatre added variety and incitement to the course of study.

Yet the great contribution of President Neilson's long administration did not lie in any of these achievements or in their sum. In his time Smith College came to be recognized in America and abroad not only as a reputable member of the academic community but as one of the leading colleges of this country, whether for men or women. Its position in the front rank was established. Its size, its vigor, the distinction of its faculty, and the ability of its alumnae were factors in this recognition; but a certain statesmanlike quality in its President had much to do with bringing it to the fore whenever academic problems were under discussion. Wherever Mr. Neilson went, his ability to penetrate to the heart of a question helped to clarify thinking, dissipate prejudice, and foster agreement; and the College rose with him in the estimation of the educational world and of the country.

IV

The fourth administration of Smith College began, like the third, in a time of international conflict, under the cloud of wars and rumors of wars. President Neilson retired at the end of the academic year 1938-39; during the interregnum Elizabeth Cutter Morrow served her college as Acting President and earned its deep gratitude. At the opening of the year 1940-41, President Herbert Davis, formerly Professor of English at the University of Toronto and at Cornell University, took office.

The college went into year-round session in order to allow for acceleration on an optional basis; members of the faculty and staff were called into many fields of government service. The Navy Department invited Smith College to provide facilities for the first Officers' Training Unit of the Women's Reserve, and between August, 1942, and the closing of the school in January, 1945, more than ninety-five hundred women received their commissions.

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After the war, the College returned to its regular calendar, and a revised curriculum proposed by a Faculty Committee was adopted. Much-needed building projects were carried out. Among them was a new heating plant and the establishment of a student recreation hall which, at the request of the students, was named Davis Center in honor of their president, shortly before he left in June, 1949 to accept a post at Oxford University.

V

The anniversary year 1949-50 opened under President Benjamin Fletcher Wright, formerly Professor of Government at Harvard University and Chairman of that University's Committee on General Education. The Inauguration of the President and the Convocation in honor of the seventy-fifth year, held jointly on the 19th and 20th of October, were marked in word and spirit by recognition not only of the brilliant record of the past but of a great responsibility toward the future. "Our legacy is not narrow and confining," said Mr. Wright. "The founders of this College faced their own times with courage, and they had confidence that later generations would advance their work. We shall be faithful to that trust only if we carry on our heritage in their spirit." At the end of the year this confidence was notably demonstrated in the successful completion of the Seven Million Dollar Fund representing four years of devoted effort on the part of alumnae, students, and friends of the College.

Among the achievements of President Wright's administration were the introduction of interdepartmental courses and the expansion of the honors program. In spite of increasing financial burdens the economic situation of the College was improved, faculty salaries were increased, and the College received a large gift to be used for a new faculty office and class room building to be named in the President's honor. After ten years in office, Mr. Wright resigned in order to resume teaching and research in the field of constitutional law.

VI

The sixth administration of the College was assumed in the fall of 1959 by Professor Thomas Corwin Mendenhall, who came to Smith College from the Department of History at Yale University where his most recent administrative posts had been Master of Berkeley College and Director of the Master of Arts in Teaching Program.

In President Mendenhall's administration, the curriculum has once again been re-examined and revised to adjust it to the changing needs of an increasingly well-prepared student body. Emphasis has been placed on the interests and capacities of the individual student. Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts have broadened their previously established Four-College Cooperation to make available to their students and faculties a variety of jointly sponsored services and facilities (see p. 49). The William Allan Neilson Library has been expanded and renovated; the newly constructed Clark Science Center now

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provides the College with modern facilities for teaching and research in the sciences, and a Center for the Performing Arts is in construction.

The growth of Smith College is evident enough in the contrast between the small beginnings and the present achievement: between the original corner lot of thirteen acres and a campus of 292 acres, including the astronomy observatory site in Whately; between Sophia Smith's legacy of \$400,000 and total assets of \$85,831,588; between the first class of fourteen and today's enrollment of 2,580; between the eleven graduates of 1879 and an alumnae roster of 33,407. Expansion has meant no change in the ideals set for the College by the founders and carried on by all the great company who have loved it and worked for it. By putting quality first, by coveting the best, by cherishing the values for which the College has always stood, those who serve it now are united in devotion and in commitment with all who have served it in the past. It is this corporate loyalty which has always been, and will continue to be, the abiding strength of Smith College.

THE WILLIAM ALLAN NEILSON CHAIR OF RESEARCH

The William Allan Neilson Professorship, commemorating his profound concern for scholarship and research, has been held by the following distinguished scholars: KURT KOFFKA, PH.D. *Psychology*. 1927-32.

G. ANTONIO BORGES, PH.D. *Comparative Literature*. 1932-35.

SIR HERBERT J. C. GRIERSON, M.A., LL.D., LITT.D. *English*. Second semester, 1937-38.

ALFRED EINSTEIN, DR. PHIL. *Music*. First semester, 1939-40; 1949-50.

GEORGE EDWARD MOORE, D.LITT., LL.D. *Philosophy*. First semester, 1940-41.

KARL KELCHNER DARROW, PH.D. *Physics*. Second semester, 1940-41.

CARL LOTUS BECKER, PH.D., LITT.D. *History*. Second semester, 1941-42.

ALBERT F. BLAKESLEE, PH.D., SC.D. (HON.) *Botany*. 1942-43.

EDGAR WIND, PH.D. *Art*. 1944-48.

DAVID NICHOLS SMITH, M.A., D.LITT. (HON.), LL.D. *English*. First semester, 1946-47.

DAVID MITRANY, PH.D., D.SC. *International Relations*. Second semester, 1950-51.

PIETER GEYL, LITT.D. *History*. Second semester, 1951-52.

VYSTAN HUGH AUDEN, B.A. *English*. Second semester, 1952-53.

ALFRED KAZIN, M.A. *English*. 1954-55.

HARLOW SHAPLEY, PH.D., LL.D., SC.D., LITT.D., DR. (HON.) *Astronomy*. First semester, 1956-57.

PHILIP ELLIS WHEELWRIGHT, PH.D. *Philosophy*. Second semester, 1957-58.

KARL LEHMANN, PH.D. *Art*. Second semester, 1958-59.

ALVIN HARVEY HANSEN, PH.D., LL.D. *Economics*. Second semester, 1959-60.

PHILIPPE EMMANUEL LE CORBEILLER, DR.-ÈS-SC. A.M. (HON.) *Physics*. First semester, 1960-61.

JUDORA WELTY, B.A., LITT.D. *English*. Second semester, 1961-62.

JÉNES BARTHA, PH.D. *Music*. Second semester, 1963-64.

Admission of Undergraduates

SELECTION OF CANDIDATES

The College seeks a student body widely representative of the more able students of diverse economic and social background from both public and independent schools in all parts of the country and from abroad. The Board of Admission meets in March each year to evaluate the records of applicants for the Freshman Class who are notified of its decisions in mid-April. Students are selected who give evidence of possessing the particular qualities of mind and purpose which an education in the liberal arts requires and whose personal qualifications give assurance that they will be responsible and contributing members of the community. Both past achievement and capacity for intellectual development are given weight in this evaluation.

The Board's estimate of the student's ability, motivation, and maturity is not based on a theoretical formula for success, but on a careful and thorough review of all of the candidate's credentials, which include her secondary school record and rank in class, the recommendations from her school, the results of her College Board examinations, and other available information.

Although an interview at the College is not required, it is strongly recommended, since it provides an opportunity for an exchange of information between the candidate and a member of the College's interviewing staff. Students living within a reasonable distance, that is, in the New England states, should make arrangements for an appointment in the office of the Board of Admission before March 15 of their senior year.

The Director of Admission welcomes correspondence with interested candidates, their parents, and school advisers.

SECONDARY SCHOOL PREPARATION

In planning her high school program, a candidate should consider the ways in which her choices will affect her achievement in college. A candidate is encouraged to take the most intellectually stimulating program she can handle successfully. She is expected to master basic intellectual tools and to learn to think with accuracy, to see relationships, to read with comprehension, to write and speak with precision.

Course requirements for entrance are flexible, but it is strongly recommended that the student complete a secondary school program which will give her at least sixteen credits in English, language, mathematics, science, and history. She is advised to take, in addition to four years of English composition and literature, a mini-

ADMISSION OF UNDERGRADUATES

imum of three years in one foreign language or two years each in two languages, three years of mathematics, one year of laboratory science, and two years of history. Additional courses taken as electives may be selected from any of the above fields, and the student is free to pursue in depth the area of her greatest interest.

No credit will be given for one year of a language. Students are encouraged to take, in addition to a minimum of two or three years of a modern language, two years of Latin or Greek, if it is possible for them to do so. Half-credits will be granted only in mathematics. Entrance credit may be granted for courses in art, Bible, and music, but generally such credit is in excess of the sixteen credits recommended above.

The College is aware of the variations in school curricula and is willing to give careful consideration to able students whose programs differ from the recommended course of study.

Each incoming class is selected without emphasis on particular areas of study, but the Board takes special interest in candidates who have achieved good overall records and have demonstrated marked ability in one field.

APPLICATION FOR ADMISSION

An applicant for admission registers by submitting an application card which the Board of Admission furnishes upon request and by paying a registration fee of \$15 which is not refunded. Although the date of application is not considered in the selection of candidates, the assignment of rooms in college houses is made in the order of the date of application for admission. Applications must be received not later than January 15, 1967 for candidates seeking admission in 1967, and January 1, 1968 for those seeking admission in 1968.

ENTRANCE TESTS

Smith College requires a total of three Achievement Tests – English and two others chosen from two of the following fields: language, mathematics *or* science, social studies. The tests may be divided between the junior and senior years. Every candidate should be able to offer a total of at least three without any alteration of her normal school program. Although no more than three Achievement Tests in different areas are required, it is advantageous for the applicant, in addition to offering the maximum number possible in January of the senior year, to take English and two other tests in May of the junior year for advisory purposes or for possible use in an Early Decision application.

The Scholastic Aptitude Test is required in December or January (preferably December) of the senior year. Students are also encouraged to take this examination in March or May (preferably March) of the junior year.

All candidates should apply to take the College Board examinations by writing to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540

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or the College Entrance Examination Board, Box 1025, Berkeley, California 94701. Applications and fees should reach the appropriate office at least one month before the date on which the tests are to be taken.

EARLY DECISION ON ADMISSION

Candidates who are clearly qualified in every respect and have made application *only* to Smith College may submit their application for consideration at the November meetings of the Board of Admission. Students should not apply under this plan unless they have the approval of their school principal or counselor. These applications must be made by October 1 of the senior year, and candidates will be notified of the Board's decision in late November. Decisions are based upon the same general criteria as at the spring meetings, except that the records considered reflect only three years' work. The Scholastic Aptitude Test should be taken in March of the junior year and the three Achievement Tests in May. Early decision candidates who wish to have an interview should do so before November 1, if possible.

Candidates interested in this procedure should write to the Board of Admission for the pamphlet, *Plan for Early Decision on Admission*.

ADVANCED PLACEMENT PROGRAM

Smith College participates in the Advanced Placement Program which is administered by the College Entrance Examination Board. College credit will be given for scores of 4 or 5 on Advanced Placement examinations. Students receiving such credit may be exempted from certain requirements of the curriculum. (See below, p. 42, and the statements under Departmental offerings.)

FOREIGN STUDENTS

The College is interested in admitting qualified foreign students. Applicants are advised to communicate with the Director of Admission well in advance of their proposed entrance. They should include in their initial letter detailed information about their total academic background.

ADMISSION WITH ADVANCED STANDING

Each year the College admits a small number of sophomores and juniors by transfer from other institutions. Candidates for admission with advanced standing are judged on the following criteria: school and college records and recommendations, and results achieved on the Scholastic Aptitude Test. Their college programs should correlate with the general college requirements given on p. 42, of this catalogue. With the request for the application form, students should include a detailed statement of

ADMISSION OF UNDERGRADUATES

their previous educational experience and their reasons for wishing to transfer. To be eligible to apply, a student is expected to be doing work of honor grade at the institution she is attending. Candidates are advised not to apply until after they have received their midyear grades. Applications should be on file, however, not later than February 15 of the proposed year of entrance. Decisions are reported before May 1.

Successful candidates are given credit without examination for acceptable work taken at another college. Shortages incurred when previous work is not accepted for the Smith College degree may be removed by carrying a course above the minimum or taking work in an approved summer school. During their first semester in residence advanced standing students may not elect more than four and a half courses without permission of the Administrative Board. Candidates for the degree of Bachelor of Arts are ordinarily required to spend at least two years in residence at Smith College.

READMISSION

A student who has withdrawn from college may apply to the Administrative Board for readmission. Application for readmission in September should be sent to the Registrar before April 1; for readmission in February before December 1.

In general, students who have withdrawn from college at the end of the first semester will be permitted to return only the following February, or at the beginning of the second semester of a subsequent year.

NON-MATRICULATED STUDENTS

Qualified persons beyond the normal undergraduate age may be admitted to courses of study or to supervised research with the approval of the Registrar and the instructor concerned. Auditors must obtain the permission of the Registrar and of the instructor of the course. (See pp. 205-206 for fees.)

The Curriculum

GENERAL COLLEGE REQUIREMENTS

As candidate for the degree of Bachelor of Arts, students will normally follow a four-year program in which they are required to complete thirty-two semester courses of academic work (128 semester hours) as well as prescribed courses in Physical Education. For graduation they must achieve a cumulative average of at least C in their academic work and an average of C or better in the senior year, and must pass two examinations in their major. In computing averages, plus and minus signs are not taken into account. The minimum schedule for a semester consists of four courses.

College credit will be given for scores of 4 or 5 on Advanced Placement examinations. Students receiving such credit may be exempt from some requirements. Students with lower scores may be admitted to advanced courses. Decisions on all matters concerning exemption and placement will be made at the time of registration by appointed representatives of the appropriate departments.

When plans can be approved before the end of the freshman year, it is possible in special cases for students to complete the work in three years by attending summer sessions elsewhere. Only in rare instances is the degree granted after a residence at Smith College of less than two years, one of which must be the senior year.

SPECIAL REQUIREMENTS

- (1) Two semester courses in natural science. Normally students will fulfill this requirement in laboratory science: Astronomy, any of the Biological Sciences, Chemistry, Geology, Physics, Psychology. The required courses may be taken in two departments.

Exemption from this requirement will be granted to students who have achieved a score of 4 or 5 on College Board Advanced Placement Examinations or passed an examination in one or two of these fields after the opening of college.

- (2) Two semester courses in a foreign language previously studied in school or four semester courses or an intensive one-year course in a language begun in college.

Provision will be made for exemption from this requirement on the basis of an examination administered after the opening of college.

- (3) Thirteen semester courses outside the area of concentration (two-fifths of the courses required for graduation). Courses taken to fulfill the science and language requirements will be included in this category for students not majoring in the departments in which the requirements were met.

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- (4) A minimum of three semester courses in a department other than the department of the major. At least two of these courses must be of intermediate, advanced, or graduate level.

THE MAJOR

Major programs, which are offered in all departments except Physical Education, are prescribed by the departments. There are, in addition, three interdepartmental majors in American Studies, Ancient Studies, and Biochemistry. In the sophomore year, each student must select a major field; she may make this decision in the fall of that year, if she chooses to do so, and must make it by spring. When a student enters upon her major, she comes under the direction of a major adviser and obtains the approval of that adviser for her program, including a tentative specification of the field or other departmental examinations that she proposes to take in her major, and the time at which she will take them.

A minimum of eight and a maximum of ten semester courses is required in the department of the major in addition to the basic course or courses. Additional courses may be elected in the major department.

The subject matter of each department is subdivided into several fields. The student must pass two examinations in the major department, one in a particular field, the other of a nature defined by the department. In a semester in which juniors or seniors take these examinations, they will be exempt from final examinations in courses related to the departmental or field examinations.

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ANNOUNCEMENT TO THE CLASS OF 1967

Members of the Class of 1967 are candidates for the degree of Bachelor of Arts under the regulations specified below. Insofar as they will have fulfilled all the requirements prescribed in the following statement by the end of their senior year, they may take either four or five courses each semester of that year, as they prefer. *The extra-divisional requirement* that at least six semester hours in the junior or senior year must be taken in a division other than that of the student's major, *will be waived for members of this Class.*

Candidates for the degree of Bachelor of Arts in 1967 must have completed one hundred and twenty-two hours of academic work as well as prescribed courses in Physical Education. For graduation, they must have achieved a cumulative average of at least C (fair) in their academic work and an average of C or better in the senior year and in the integrating course or general examination in the major. They must have fulfilled the following special and distribution requirements.

SPECIAL REQUIREMENTS

1. Six semester hours in Freshman English.
2. Six semester hours in a foreign language. The minimum prerequisite for courses which fulfill the requirement is three entrance units in a language or six hours in college. Courses which fulfill the requirement are marked (L) and are offered in the following departments: Classics, French, German, Italian, Russian, Hispanic Studies.
3. Students entering without units in Latin or Greek must have taken either Latin 111 or Greek 111, or six hours of classical literature in translation.

DISTRIBUTION REQUIREMENTS

1. Six semester hours in literature (Group A: Classics, English, French, German, Italian, Russian, Spanish, Theatre and Speech [Section A], Biblical Literature, General Literature). This requirement may be fulfilled with a literature course in the language used to fulfill the foreign language requirement, or in a different language. (In certain cases, the language and literature requirements may be met by one and the same course, as indicated in each language department.)
2. Six semester hours in Art, Music, or Theatre and Speech (Group B), or in Philosophy, or Religion (Group C).
3. Six semester hours in History (Group D).

Seniors who have not yet fulfilled this requirement may enter intermediate or advanced courses after consultation with the Chairman of the History Department.

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4. Six semester hours in Economics, Government, Sociology, or Social Science (Group E).
5. Six semester hours in Astronomy, Chemistry, Geology, Physics, Physical Science (Group F) or one of the Biological Sciences (Group G).

Students who have had two years of laboratory science in the last three years of secondary school may fulfill this requirement through certain prescribed courses in mathematics or psychology.

The courses which may be taken to fulfill these distribution requirements are named at the head of each department offering and specified in the list of Interdepartmental Courses on page 54.

DIVISION I. THE HUMANITIES

- GROUP A. *Literature:* Classics, English, French, German, Italian, Russian, Spanish, Biblical Literature, General Literature.
- GROUP B. *Fine Arts:* Art, Music, Theatre and Speech.
- GROUP C. *Philosophy, Religion.*

DIVISION II. SOCIAL SCIENCES AND HISTORY

- GROUP D. *History.*
- GROUP E. *Social Sciences:* Economics, Education, Government, Sociology, Social Science.

DIVISION III. NATURAL SCIENCES AND MATHEMATICS

- GROUP F. *Physical Sciences and Mathematics:* Astronomy, Chemistry, Geology, Physics, Physical Science, Mathematics.
- GROUP G. *Biological Sciences and Psychology:* Bacteriology, Botany, Psychology, Zoology, Biological Science.

THE MAJOR

Of the thirty semester hours required in the major at least eighteen must be in courses of Grade III or higher (intermediate or advanced) in the field of concentration and of these twelve must be in the department. Students are required to take not less than twelve hours in the major field in each of the junior and senior years. Courses taken in the sophomore year, exclusive of the basic course, may be counted in the major.

In the junior and senior years not more than twelve semester hours of Grade I (introductory) may be taken for credit toward graduation and at least twenty-four semester hours above Grade II (intermediate or higher) must be taken.

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FOREIGN STUDY IN EUROPE

Students in good standing and with sufficient language training may, if conditions permit, spend the junior year in certain foreign countries in groups directed by members of the Smith College Faculty. The Junior Years in France, Germany, Italy, and Spain are intended primarily for language majors, and the Junior Year in Geneva primarily for students majoring in economics, government, history, or sociology. Majors in other fields with adequate preparation in language may apply to the appropriate committees with the consent of the department of the major. An honors candidate should consult the director of honors in her department before applying to go abroad. Qualified students who spend the junior year abroad may apply for admission to the honors program in the senior year. Properly prepared students from other colleges may be admitted to the groups.

The Junior Year Abroad is planned to afford as rich an opportunity as possible to observe and study the countries visited. Art, music, and theatre are available, and the Directors arrange occasional meetings with outstanding scholars, writers, and leaders. During the vacations students are free to travel, although they may stay in residence if they prefer.

Applications, including permission from parents, must be made by February 1 at the Office of the Registrar. (Applications from students in colleges other than Smith must be accompanied by a fee of ten dollars, which is not refunded.) The selection of members for each group is determined by a special faculty committee. Candidates must meet the health requirements set by the College Physician.

The Directors of the groups are granted by the College full control in matters of behavior and discipline, although the details of group procedure are worked out with student committees. These social regulations are comparable to those which obtain at Smith College, but in each case are adapted to the customs of the country. The supervision of the Director ends with the close of the academic year.

The fee covering tuition, room, and board is \$2950 for the academic year 1966-67, and will be \$3100 for the academic year 1967-68; travel and incidental expenses vary according to individual tastes and plans. A deposit of \$50 is payable within 30 days by students who have been provisionally accepted. It is credited on the second semester bill and is not refunded unless written notice of withdrawal from a group is received before June 1. Payment for the first semester should be made by July 10; for the second semester, by December 10. Checks should be sent to the Treasurer of Smith College, Northampton, Massachusetts 01060.

Neither the College nor the Director accepts any responsibility for personal injury to members of a group or for damage to or loss of property. The College offers a health insurance program in which participation is optional, providing the student has protection under another plan and furnishes the Treasurer's Office with the name and address of the insurance carrier and the student's membership number.

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FRANCE. Arrangements are made for students to live in Paris with carefully selected families. Programs consisting of work in French literature, history, art, and other aspects of French culture are planned by the Director. Courses are given by professors from the Sorbonne and other institutions. A preliminary six-week period of intensive training in language is spent in Aix-en-Provence. The language requirement for admission to the group is usually two years of college French beyond three entrance units.

ITALY. The work of the year begins with a month in Siena, where study of the language and of art and literature is undertaken with special instructors. After the first of October, this study is continued in Florence. About the middle of November the group starts work in classes conducted especially for Smith College by professors of the University of Florence and in courses at the University. The subjects offered are Italian art, history, language, and literature. In Florence the students live in private homes chosen by the Director. The minimum requirement for admission is normally two years of college Italian.

GENEVA. The work in Geneva emphasizes international studies rather than the history and culture of a single country. Accordingly, the group is composed primarily of majors in history, government, economics, and sociology. The program consists of courses in diplomatic and contemporary history, international economics and finance, international law, and similar subjects given at the University of Geneva and the Graduate Institute of International Studies. A preliminary six-week period of intensive training in language is spent in Paris. Since the classes are conducted in French, students are encouraged to offer two years of college French beyond three entrance units; a minimum of one year of college French is required. It is strongly urged that work in at least two fields of the social sciences be offered for admission.

GERMANY. The work of the Junior Year in Hamburg consists largely of courses taken at the University supplemented, wherever necessary and desirable, by work with German tutors or by specially arranged courses. Courses in German literature, philosophy, art, music, and history are available. A preliminary eight-week period of intensive training in language is spent in Bavaria. A minimum of two years of college German is the normal requirement for admission.

SPAIN. After a preliminary month of intensive training in language spent in Barcelona, the juniors go to Madrid for the year's course of study. There they live with carefully selected families. A program consisting of courses in Spanish literature, philosophy, history, and art is planned by the Director and given by professors from the University of Madrid and other institutions. A minimum of two years of college Spanish is the normal requirement for admission.

For summer seminars in the History of Art in Europe, see p. 58.

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THE JUNIOR YEAR IN THE PHILIPPINES

Students with special interest in East or Southeast Asia or in the general problem of emerging nations may spend their Junior Year in Manila. They will take a leave of absence from the College and enroll as regular students at the University of the Philippines. They will live in the University's dormitories, under its supervision, and join in its extracurricular activities. Travel to other parts of the Islands is possible during vacations. English is the language of instruction and of government. An American visiting professor resident on the campus acts as adviser to the group. The academic year begins in early July and ends at the beginning of April.

Students planning to apply for this Junior Year should consult with their major advisers as early as possible with a view to fulfilling some of the requirements for the major during their sophomore year. Inasmuch as students are on leave from the College, they are responsible for their own financial arrangements. It is estimated that a residence of nine months in the Philippines will cost approximately \$1000.

EXCHANGE PROGRAM WITH TORONTO

Since 1945, an exchange of students in the junior class with juniors at the University of Toronto has proved highly successful. During this year, the Smith College juniors live in the colleges of the University and carry on programs approved by their major advisers. Candidates from Smith College must have demonstrated their ability to do work of Dean's List rating and have the approval of the chairman of their major department to be eligible for this program. Four exchanges may be arranged in any one year.

COOPERATIVE PROGRAM FOR CRITICAL LANGUAGES

Qualified students may be granted permission to study for a year at Princeton University in the Cooperative Undergraduate Program for Critical Languages. This program offers instruction in the Arabic, Chinese, Japanese, Persian, Russian, and Turkish languages and related regional studies in the social sciences and humanities. A strong academic record, at least one year of a critical language or an equivalent intensive summer course, and approval of the major department are required for admission. Information concerning application procedure is available at the Office of the Registrar.

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FOUR-COLLEGE COOPERATION

Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts have for some time combined their academic activities in certain selected areas for the purpose of extending and enriching their collective educational resources and have worked out procedures for the proper utilization of these resources by each member of the group. As a result, a student in any one of the four institutions may take a course for credit in any of the other three if he or she has the necessary qualifications for the work of the course and if the request is approved by the student's own Dean. Catalogues of the courses offered in the other institutions are at the loan desk in the main library and in the offices of all chairmen of departments. Application blanks are available in the Office of the Dean and that office will help with the arrangements for transportation. Requests are usually for advanced courses in the student's major subject and are normally granted only to students in good standing.

The oldest and probably the most important of the cooperative ventures is the Hampshire Inter-Library Center (HILC), a separate legal entity controlled by a Board of Directors made up of the four Presidents, the four Librarians, and representatives from each of the Faculties. HILC is a depository for research materials and learned periodicals of a kind and in a quantity well beyond the reach of any one of the four libraries operating independently: it is now located in the new wing of the Goodell Library on the campus of the University of Massachusetts. The FM Radio Station (Western Massachusetts Broadcasting Council, Inc., WFCR 88.5) is likewise a legal entity, controlled by a Board of Directors made up of representatives of all four institutions.

A cooperative Ph.D. program has been established. The degree is awarded by the University of Massachusetts but the work leading to the degree may be taken in the various institutions. Students interested in this program should write to the Dean of the Graduate School, University of Massachusetts, Amherst, Massachusetts 01002.

Among other cooperative activities, all designed to give added strength in one way or another to each individual institution, are the following: a joint Astronomy Department; courses in Asian-African Studies, financed by the Ford Foundation; a Film Center; a common Calendar of lectures and concerts on all four campuses; a committee on transportation, with an executive chairman; and a Coordinator, who is a member of the administration in all four institutions. Other cooperative ventures are constantly being studied.

THE DEGREE WITH HONORS

PURPOSE: The Honors Program is strongly recommended for all juniors and seniors who have achieved or approximated a Dean's List average. Sophomores with exceptional preparation are also encouraged to apply. This program allows for flexibility in the planning and execution of the work of the major and at the same time

THE CURRICULUM

gives recognition to students who do work of good quality in the preparation of a long paper, as well as in their courses and units or seminars.

AWARD: The degree with honors is voted by the faculty on the recommendation of the Honors Committee, to whom Departments recommend honors in three grades: *summa cum laude*, *magna cum laude*, *cum laude*. Awards are based on consideration of (a) an independent piece of work which usually involves writing a long paper, (b) three final examinations, (c) an estimate of all the work completed in the junior and senior years in addition to any work of intermediate or higher level taken in the department of the major during the sophomore year.

A student who fails to be awarded honors will be granted a degree without honors if her work is of sufficient merit.

ADMISSION: Juniors having a cumulative average of B for the three semesters preceding their application for admission to the honors program are automatically eligible. Other students may be admitted on the recommendation of the department of the major and with the approval of the Committee on Honors.

Subject to special requirements of individual departments, students may enroll at the beginning of the second semester of the sophomore year, or of either semester of the junior year, or at the beginning of the senior year. They may withdraw only upon the recommendation of the department of the major and with the approval of the Committee.

UNITS: Honors units will normally be limited to ten students; exceptions up to the number of twelve may be permitted on the recommendation of the director of honors and with the approval of the instructor. Priority among honors students for admission to units will be determined by need and qualification.

PRIVILEGES: An honors candidate will have the greatest possible elasticity in the arrangement of her program and will be exempt from all course examinations at the end of the senior year. Honors students will be given preference over other undergraduates when admission to units must be limited, and may be given such preference when admission to seminars must be limited.

For further information on the program and requirements of individual departments, see the departmental listings.

THE DEGREE WITH DISTINCTION

The Degree with Distinction is awarded to students who maintain a minimum average of 3.4 for the senior year and who have achieved a cumulative average of 3.5 or better in the sophomore, junior, and senior years.

THE CURRICULUM

ACADEMIC RECORD

Grades signify the following: A, excellent; B, good; C, fair; D, poor; E, failure.

The Dean's List records the names of students who have achieved an average of B (3.0) or better in the work of the preceding year. It is computed by counting each semester hour of A as 4 points, B as 3, C as 2, D as 1, E as 0. Plus and minus signs are not counted.

For graduation, a student is required to have a cumulative average of at least C (2.0) in her academic work, an average of C or better in the senior year and in the departmental examinations.

A student may not enter the senior year with a shortage of hours.

A shortage of hours incurred through failure in a course must be made up before graduation by an equivalent amount of work at the same or higher level carried above the minimum or completed in an approved summer school.

If a student is absent for more than six weeks in one semester, she may not receive credit for the work of that semester.

A student whose college work or conduct is deemed unsatisfactory is subject to separation from the College.

PHI BETA KAPPA

The Zeta of Massachusetts Chapter of the Phi Beta Kappa Society was established at Smith College during the year 1904-05, and the first undergraduates were elected to membership in April. In 1920, provision was made for the election of a small number of juniors. Rules of eligibility are established by the Chapter in accordance with the regulations of the national Society.

SOCIETY OF THE SIGMA XI

In 1935 Smith College became the first woman's college to be granted a charter for the establishment of a chapter of the Society. Each year the Chapter elects to membership promising graduate students and seniors who excel in science.

THE CURRICULUM

RULES GOVERNING THE ELECTION OF COURSES

Each student is expected to make herself familiar with all regulations governing the curriculum and is responsible for planning her four years of study in accordance with the requirements.

Certain conditions require the presentation of permission slips or of petitions to the Administrative Board.

Petitions to the Administrative Board, which must have the recommendation of the chairman of the department and of the instructor concerned, are required of:

1. All students to enter a course for which they have not had the stated prerequisite.
2. All students to enter the second semester of a year course.
3. All students requesting credit for the first semester of a year course which they propose to drop.

Petitions to carry less than four or more than four and a half courses in a semester must have the recommendation of the student's adviser and the College Physician. A shortage of courses permitted by the Board may be made up by a corresponding excess distributed over succeeding semesters.

Permission of the instructor is required of all students for admission to a seminar. Only one seminar a semester is permitted to students not enrolled in the honors program, and they must petition the Honors Committee for admission to honors units. A seminar is limited to twelve students. Qualified undergraduates may take one or more graduate courses with the permission of their major advisers and the instructor of the course.

Changes in an academic program may be made only with the approval of the student's adviser either during the scheduled periods for advising or during the first week of classes of each semester.

1. Freshmen and sophomores should file requests for changes in the Office of the Class Deans; juniors and seniors in the Office of the Registrar.
2. Permission to drop courses carried above the minimum during the first semester will not be granted after November first or, for the second semester, after April first.

A student is permitted to attend a class either as an occasional or as a regular auditor with the permission of the instructor in charge of the course.

Smith College

COURSES OF STUDY

1966-1967

Key to Symbols and Abbreviations

Courses are classified in four grades indicated by the first digit in the course number: 100, Introductory; 200, Intermediate; 300, Advanced; 400, Graduate, open to qualified undergraduates.

An "a" after the number of a course indicates that it is given in the first semester; a "b," that it is given in the second semester. A "c" indicates a summer seminar given abroad. Where no letter follows the number of the course, the course runs through the year.

Unless otherwise indicated, all year courses carry eight hours credit; all semester courses, four hours.

The numerals after the letters indicating days of the week show the scheduled hours of classes and hours to be used at the option of the instructor. Students may not elect more than one course in a time block (see chart, p. 247), except in rare cases which involve no conflict (e.g., Economics 110a, b, and Government 100). Assignments to sections and laboratory periods are made by the Registrar. Where scheduled hours are not given, the times of meeting are arranged by the instructor.

[] Courses in brackets will be omitted during the current year.

Dem. indicates demonstration; lab., laboratory; lec., lecture; sect., section; dis., discussion.

An "L" in parentheses at the close of the description of a course in the foreign language and literature departments indicates that the course may be taken by the Class of 1967 to fulfill the foreign language requirement.

Explanation of marks before instructors' names: on leave, †for the year; *for the first semester; **for the second semester; §Director of a Junior Year Abroad; ¹appointed for the first semester; ²appointed for the second semester.

INTERDEPARTMENTAL COURSES*

GENERAL LITERATURE 291. *A Study of Selected Literary Masterpieces from Homer to Tolstoy.* Lec. T 2. Section meetings. M T W 10, 12, 2, T 2, Th 2:20-4:10. Mr Connelly (*Director*), Miss Muchnic, Mr Dimock, Mr Young, Mrs Adams, Mr Hindmarsh, Mr Banerjee. (Group A)

HISTORY AND SOCIAL SCIENCE 293. *American Ideas and Institutions.* A study of American life and thought through the intensive analysis of four representative generations from the eighteenth to the twentieth century. The adaptation of American values to changing economic, political, and social conditions. Th F S 10, F 11 at the option of the instructor. Mr Fink, first semester; Mr Ruiz, second semester.

[HUMANITIES, HISTORY, AND SOCIAL SCIENCE 493b. *Soviet Russia.* A study of political, economic, social, and cultural life in the Soviet Union. Prerequisites: History 247b or Economics 209a or Government 220a and permission of the instructor.]

PHYSICAL SCIENCE 193. *The World of Atoms.* A course in principles designed (1) to convey contemporary ideas about nuclear, atomic, and molecular structure, and (2) to develop an understanding for the methods of physical science. Chemical, astronomical, and physical ideas are discussed in relation to each other and developed in a logical manner. The historical growth of scientific concepts is traced from the Greeks to the present. This course will fulfill the science requirement for classes subsequent to 1967. (This course is designed primarily for students who, at the time of entering, do not intend to major in science.) Lec. M T 10-10:50, W 10-11:50; dis. W Th F 2:20-3:10. Mr Josephs (*Director*), Mr Sherk.

COURSES OFFERED UNDER INTERCOLLEGIATE AUSPICES

ARABIC 101. *Modern Literary Arabic.* Grammatical construction, pronunciation, selected readings. M T W 3:20. Mr Verdery.

ARABIC 201. *Intermediate Arabic.* Reading and translations. Prerequisite: 101 or permission of the instructor. Hours to be arranged. Mr Verdery.

ARABIC 301. *Advanced Arabic.* Prerequisite: 201, or permission of the instructor. Hours to be arranged. Mr Verdery.

CHINESE 111. *Modern Chinese (elementary).* An introduction to Chinese sounds, to basic language patterns of spoken Chinese, and to the recognition of Chinese characters. M F 3:20-5:20 and two laboratory hours to be arranged. Mr Kung.

CHINESE 212. *Modern Chinese (intermediate).* Conversational Chinese and reading

*For Interdepartmental Majors, see pp. 194ff.

INTERCOLLEGIATE COURSES

of modern Chinese writings, additional sentence patterns and characters and their combinations. Prerequisite: 111. T Th 4:15-5:45 and two laboratory hours. Mr. Kung.

CHINESE 322. *Modern Chinese (advanced)*. Advanced study of grammatical structure of Chinese, and readings in modern literary Chinese materials. Prerequisite: 212 or the equivalent. University of Massachusetts. T Th 10:30-12. Mr Kung.

CHINESE 333. *Modern Chinese Writings*. Selections from fiction and from documentary and newspaper styles. Prerequisite: 322 or permission of the instructor. T 7:30-9:30 P.M., Th 8:15-9 A.M. Mr Kung.

[CHINESE 444. *Classical Chinese*.]

HISTORY OF SCIENCE 395a. *The Newtonian Synthesis*. The biological and physical sciences from the Greeks to the nineteenth century, with the focus on the work and influence of Newton, his predecessors, opponents, and followers. The course emphasizes the significance of scientific ideas in intellectual history. M 3:20-5:10. Mr Fruchtbaum.

HISTORY OF SCIENCE 396a. *The Darwinian Revolution*. Themes in the history of nineteenth-century science, with the focus on the work and influence of Darwin, his predecessors, opponents, and followers. The role of biology, physics, and the sciences of man in shaping the modern world view is examined. Amherst College. T 2-4:30. Mr Fruchtbaum.

HISTORY OF SCIENCE 397b. *The Non-Scientific Foundations of Science*. The influence of theology and philosophy on the history of science. Topics include the role of teleology and natural theology in the development of astronomy, geology, and biology, and the interrelations of science and religion. M 3:20-5:10. Mr Fruchtbaum.

HISTORY OF SCIENCE 398b. *Science in America*. A history of scientific ideas and institutions in America from the colonial period to the twentieth century. Lectures and discussions will consider the mutual impact of science and American culture. Amherst College. T 2-4:30. Mr Fruchtbaum.

HISTORY OF SCIENCE 399a. *The Social Setting of Science*. A history of scientific institutions and the professionalization of science. The state is treated as a promoter of technology, and the scientist as a maker of public policy. Open to sophomores by permission of the instructor. Mount Holyoke College. W 2-4:30. Mr Fruchtbaum.

ART

PROFESSORS:	*HENRY-RUSSELL HITCHCOCK, A.M. PHYLLIS WILLIAMS LEHMANN, PH.D. PRISCILLA PAINE VAN DER POEL, A.M. GEORGE COHEN CHARLES WHITMAN MACSHERRY, PH.D. LEONARD BASKIN, B.A., L.H.D., D.F.A. MERVIN JULES CHARLES SCOTT CHETHAM, PH.D., <i>Director of the Museum</i> JAMES HOLDERBAUM, PH.D., <i>Chairman</i> WILLIAM LLOYD MACDONALD, PH.D.
ASSOCIATE PROFESSORS:	JAY RICHARD JUDSON, PH.D. ROBERT MARK HARRIS, PH.D. PETER GARLAND, B. ARCH. †ELLIOT MELVILLE OFFNER, M.F.A.
ASSISTANT PROFESSORS:	EDWARD JOSEPH HILL, M.F.A. AMY LOU VANDERSALL, PH.D.
INSTRUCTOR:	BERNARD MICHAEL BOYLE, M.ARCH., M.A.
LECTURERS:	PETER COLLINS, M.A. RITA ALBERS JULES JULES DAVID PROWN, PH.D.
VISITING ARTIST:	JUAN NICKFORD, M.F.A.

The courses in art which may be taken by the Class of 1967 to fulfill the distribution requirement in Group B are 100, 160, or six hours in courses above the introductory level that have no prerequisite.

Students planning to major or to do honors work in art will find that courses in literature, philosophy, religion, and history taken in the first two years will prove valuable. Botany 111a and b and 227 are recommended to students who have a special interest in landscape architecture.

A. Historical Courses

Each of the historical courses may include one or more trips to Boston, New York, or the vicinity for the study of original works of art.

A reading knowledge of foreign languages, especially German, Italian, and French, is urgently recommended.

- 100 *Introduction to the History of Art.* Important works of art, from ancient Egypt to the present (including painting, sculpture, and architecture), are studied historically and analytically. Illustrated lectures are given by members of

the department. W Th F 3:20; one-hour discussion periods distributed throughout the week. Members of the Department. Mr. Judson (*Director*).

- [101b *Introduction to the History of Art*. Restricted to 15 students selected from those taking 100. Th 7:30-9:30.]
- 102a *Introduction to Historical Architecture*. Major representative works of Western architecture will be studied as stylistic and historic documents. Th F 8:40. Mr MacDonald.
- [204b *History of Graphic Arts*. The history of print-making in the Western world, with emphasis on the production of Dürer, Rembrandt, Goya, and Munch. Two lectures (and one discussion meeting in the Museum, where original prints will be examined). M T W 9. Mr Chetham.]
- 207a *Oriental Art*. The art of China and peripheral regions as expressed in painting, sculpture, architecture, porcelain, and the ritual bronzes. The influence of India is studied in connection with the spread of Buddhism along the trade routes of Central Asia. M T 8:40. Mr MacSherry.
- 208b *Oriental Art*. The art of Japan, especially the painting, sculpture, architecture, and color prints. Particular attention is given to the roles of native tradition and foreign influences in the development of Japanese art. M T 8:40. Mr MacSherry.
- 211a *The Art of Greece*. Architecture, sculpture, painting, and the minor arts from the prehistoric background to the late Hellenistic age. M T W 10. Mrs Lehmann.
- 212b *The Art of Rome*. Architecture, sculpture, painting, and the minor arts from the late Hellenistic and Etruscan backgrounds to the late antique antecedents of Christian art. Recommended background: 211a or 100. M T W 10. Mr MacDonald.
- 221a *Early Medieval Art*. Architecture, sculpture, illuminated manuscripts, and painting from Constantine to the ninth century with emphasis on the early Christian, post-Justinianic, and Carolingian periods. Prerequisite: 100 or the equivalent, or History 103a and 104b. M 3:20-5:10, T W 3:20-4:10. Mr Harris.
- 222b *Romanesque and Byzantine Art*. Architecture, sculpture, illuminated manuscripts, and painting from the ninth through the twelfth centuries with emphasis on France, Germany, England, and the Byzantine Empire. Prerequisite: 100 or the equivalent, 221a, or History 103a and 104b. M 3:20-5:10, T W 3:20-4:10. Mr Harris.

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- [223a *Gothic Art*. Architecture, sculpture, and painting from 1200 to 1460, with emphasis on France, Germany, England, and Burgundy. Prerequisite: 100, 222b, or History 103a and 104b.]
- 231a *Northern Art*. Dutch, Flemish, French, and German art from the fourteenth through the sixteenth century. From Van Eyck to Bruegel. Given in alternate years. Recommended background: 100. Th F 8:40. Mr Judson.
- 233a *The Early Renaissance: Painting, Sculpture, and Architecture in Italy during the Fifteenth Century*. Recommended background: 100. Th 10, F 10-11:50, S 10 at the option of the instructor. Mr Holderbaum.
- 234b *From the High Renaissance to the Counterreformation: Painting, Sculpture, and Architecture in Italy during the Sixteenth Century*. Recommended background: 100. Th 10, F 10-11:50, S 10 at the option of the instructor. Mr Holderbaum.
- 239c *Michelangelo*. Summer, 1966, Florence, Italy. Mr Holderbaum.
- [241a *The Art of the Seventeenth Century in Italy, France, and Spain*. Recommended background: 100. Th F 8:40. Mr Judson.]
- 242b *Dutch and Flemish Art of the Seventeenth Century*. From Bruegel to Rembrandt. With emphasis upon painting and drawing. Recommended background: 100. Th F 8:40. Mr Judson.
- 244b *Seventeenth-Century Architecture*. The Baroque in Italy from its initiation around 1600; cross-currents of style in France and England. Recommended background: 100. M T W 3:20. Mr Hitchcock.
- [246b *Art of the Eighteenth Century in Europe*. Painting, architecture, and sculpture on the Continent, with emphasis on developments in France and Italy. Recommended background: 100. Th F 8:40, S 9 at the option of the instructor.]
- [248b *Art in Britain: 1720-1870*. Painting, architecture, landscape architecture, and sculpture from the emergence of a British School in the early eighteenth century through the mid-Victorian period. Recommended background: 100. Th F 8:40, S 9 at the option of the instructor.]
- 249c *The City of Paris*. Summer, 1966, Paris, France. Mr Collins.
- 251a *Nineteenth-Century Art* and its backgrounds from Goya and Jacques Louis David through the Impressionist and Post-Impressionist painters. Recommended background: 100. M T 11-12:45. Mrs Van der Poel.

ART

- 253a *The Arts in America.* The art of Colonial America and the Early Republic, 1620-1800, including architecture, sculpture, painting, and the decorative arts. F 12, 3:20-5:10. Mr Prown.
- 254b *The Arts in America.* American art of the nineteenth and twentieth centuries, with emphasis on the major figures and main currents in the various arts. F 12, 3:20-5:10. Mr Prown.
- 255a *Architecture of the Nineteenth Century.* The background of modern architecture. Prerequisite: 100 or 280a, b. W Th F 2. Mr Boyle.
- 256b *Contemporary Art.* Twentieth-century movements in various European countries and Mexico. Recommended background: 100 or 251a. M T 11-12:45. Mrs Van der Poel.
- [257a, 257b *Modern Architecture and Its Immediate Background.* Architecture of the last hundred years with particular emphasis on the work of H. H. Richardson, Louis Sullivan, Frank Lloyd Wright, and the European architects of the International Style. Recommended background: 100 or 280a, b. Prerequisite for 257b: 255a or 257a. M T W 2. Mr Hitchcock.]
- 258b *Architecture of the Twentieth Century.* Modern architecture since 1900, with emphasis on the work of Frank Lloyd Wright, LeCorbusier, and Mies van der Rohe. Recommended background: 100, 255a, or 280a, b. M T W 2:20. Mr Hitchcock.
- 301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had four semester courses of art above the introductory level.
- 308b Formerly 40b. Members of the Department. Mr Hill (*Director*).

SEMINARS

All seminars are open to juniors and seniors by permission of the instructor unless otherwise indicated.

- 304b *Introduction to Museum Problems.* Open to senior Art majors only. W 10-12:30. Mr Chetham.
- 312b *Studies in Greek Sculpture.* M 3:20. Mrs Lehmann.
- 314b *Studies in Roman Art.* W 7:30. Mr MacDonald.

ART

- [315a *Studies in Late Antique Art.* W 7:30. Mr MacDonald.]
322b *Studies in Medieval Art.* Th 3:20. Mr Harris.
[331a *Studies in Northern Painting.* Th 7:30. Mr Judson.]
333a *Studies in Renaissance Art.* Th 3:20. Mr Holderbaum.
341a *Problems in Seventeenth-Century Art.* Th 7:30. Mr Judson.
[346a *Studies in Eighteenth-Century Art.* M 7:30.]
351a *Studies in Nineteenth-Century European Art.* T 4:20. Mrs Van der Poel.
353a *Studies in English and American Art.* M 7:30.
356b *Studies in Twentieth-Century Art.* T 4:20. Mrs Van der Poel.
[358b *Drawing in the Nineteenth Century.* Mr Chetham.]
[359a *Architecture since 1890.* M 7:30. Mr Hitchcock.]

GRADUATE

- 400 *Research and Thesis.*
401, 401a, 401b *Advanced Studies.* May be taken for double credit.
433a *Art of the Italian Renaissance.* Mr Holderbaum.

For information about graduate work in art, application should be made to the Chairman of the Department. Adviser of graduate study: Mr Harris.

B. Studio Courses

A fee is charged for materials in 160, 260b, 261a, 262b, 265a, 266b, 271a, 272b, 273a, 274b, 280a and b, 305a, 306b, 381 and 383. The Department reserves the right to retain examples of work done in studio courses.

- 160 *Introduction to the Theory and Practice of Art.* Appreciation and understanding of the basic principles underlying the structure of the arts through studio practice in handling the elements of color, volume, movement, space, line, and texture. Lectures, demonstrations, films, discussion, and workshop experiments. M 9; eight studio hours of which four must be M T 11-12:50, 2:20-4:10, or W Th F 2-3:10. Mr Hill (*Director*).

- 260b *Materials and Techniques.* Introduction to the materials and techniques of drawing, graphics, painting, sculpture. Not open to students taking other studio courses. Lectures, demonstrations, discussion, and workshop experiments. Nine studio hours of which six must be M T W 10-11:50. By permission of the instructor. Mr Jules.
- 261a *Design Workshop.* Two- and three-dimensional experimental work in form, color, and structure. Prerequisite: 160 or permission of the instructor. Nine studio hours of which five must be Th 8:40-10:50, F 8:40-11:50. Mr Nickford.
- 262b *Design Workshop.* Continuation of 261a with emphasis on three-dimensional work. Prerequisite: 261a, or permission of the instructor. Nine studio hours of which five must be Th 8:40-10:50, F 8:40-11:50. Mr Nickford.
- 263a *Drawing.* A study of the basic elements of drawing. Prerequisite: 160 and permission of the instructor. Nine studio hours of which six must be W 3:20-4:10, Th 3:20-6:10, F 3:20-5:10. Mr Hill.
- [264b *Figure Drawing.* The study of the human figure. Prerequisite: 263a or permission of the instructor. Nine studio hours of which six must be W 3:20-4:10, Th 3:20-6:10, F 3:20-5:10. Mr Hill.]
- 265a *Painting.* Exploration of color and pictorial organization, utilizing the techniques of painting in water-color and casein. Prerequisite: 160 and permission of the instructor. Nine studio hours of which six must be M T 2:20-5:10. Mr Cohen.
- [266b *Painting.* Introduction to painting in oil; with further studies in pictorial composition and color. Prerequisite: 160, 265a, or permission of the instructor. Nine studio hours of which six must be M T 2:20-5:10. Mr Cohen.]
- 271a *Graphic Arts.* Methods of print-making. Prerequisite: 160. Nine hours of which six must be M T W 10-11:50. Mr Baskin.
- 272b *Graphic Arts.* Continuation of 271a. Prerequisite: 271a, or permission of the instructor. Nine hours of which six must be M T W 10-11:50. Mr Baskin.
- 273a *Sculpture.* Methods of direct carving and plaster techniques. Prerequisite: 160, or permission of the instructor. Recommended background: 263a. Nine studio hours of which six must be Th F 2-5. Mr Nickford.
- 274b *Sculpture.* Work in direct carving. Prerequisite: 273a, or permission of the instructor. Nine studio hours of which six must be Th F 2. Mr Nickford.

ART

- 280a, b *Introduction to Architecture, City Planning, and Landscape*. Preliminary instruction in drafting, perspective, and lettering, followed by planning and design problems. Prerequisite for 280b: 280a. Th F 2-5:10. Mr Garland.
- 301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had four semester courses of art above the introductory level.
- 305a *Art Education*. Theory and practice of art in the elementary and secondary school. For juniors and seniors by permission of the instructor. Recommended background: 160 and Education 235a, b. (Students who wish this to be credited as a course in Education should see the offerings of the Department of Education and Child Study.) M 7:30-10. Mrs Jules.
- 306b *Art Education*. Continuation of 305a. By permission of the instructor. (Students who wish this to be credited as a course in Education should see the offerings of the Department of Education and Child Study.) M 7:30-10. Mrs Jules.
- 361a *Problems in Pictorial Organization*. Prerequisite: 261a or 266b, or permission of the instructor. Nine studio hours of which six must be M T W 10-11:50. Mr Jules.
- 362b *Advanced Painting*. Individual expression in painting, using various media, Prerequisite: 361a and permission of the instructor. M T 2:20-5:10. Mr Cohen.
- 381 *Architecture*. Further problems in planning and design together with instruction in elementary construction. Prerequisites: 280a, b. Th F 11-12:50. Mr Garland.
- 383 *Landscape Architecture*. Advanced problems in landscape design. Prerequisites: 280a, b. Th F 11-12:50. Mr Garland.

GRADUATE

- 460a, 460b *Studies in Design, Drawing, Painting, Graphic Arts, or Sculpture*. Members of the Department.
- 481 *Architecture*.
- 483 *Landscape Architecture*.

THE MAJOR

Advisers: Mr Garland, Mr Jules, Mr MacDonald, Mrs Van de Poel.

Based on 100 (Section A), or 160 (Section B). Exemption from 100 will be granted to students who pass an examination administered by the Department at the beginning of the year. Exemption from 160 may be granted students upon presentation of an acceptable portfolio to the instructor. Such students will then take one semester in design and one semester in drawing.

Essential courses: 308b, formerly 40b (for members of the class of 1967): ten semester courses exclusive of the basis of the major; one semester course must be taken in Section B. If the major is based on 160 or the equivalent, 100 must be taken as well as one semester course from two of the four areas Alpha through Delta as specified below. If the major is based on 100 or the equivalent, the program must include four semester courses from four of the five areas Alpha through Epsilon:

Alpha (Ancient): 211a; 212b; 312b; 314b; 315a.

Beta (Medieval): 221a; 222b; 223a; 322b.

Gamma (Renaissance): 231a; 233a; 234b; 239c; 331a; 333a.

Delta (Baroque and Rococo): 241a; 242b; 244b; 246b; 248b; 249c; 253a; 341a; 346a.

Epsilon (the last 200 years): 251a; 253a; 254b; 255a; 256b; 257a and b; 258b; 351a; 353a; 356b; 358b; 359a.

Majors are strongly urged to take at least one seminar.

Two semester courses in closely related subjects offered by other departments may, with the approval of the adviser, be counted as credit toward the major.

Departmental examinations: Students will take one field examination, and also either a general examination or a second field examination.

The field examination:

Any one of the following categories in Section A will constitute a field: Alpha (Ancient), Beta (Medieval), Gamma (Renaissance), Delta (Baroque and Rococo), and Epsilon (the last 200 years). It is recommended that two courses in a field be regarded as minimum preparation for a field examination. For Section B field examinations, the student will submit a portfolio of work based on three or more related courses which the adviser approves as constituting a field. A field examination may be taken at the end of a student's junior or senior year.

ART

The general examination:

This examination will be designed to reflect the diversity of preparation within the major. It will be taken at the end of the senior year.

HONORS

Director: Mr Harris.

Basis: 100.

Requirements: Eight semester courses, including the Honors Unit, taken during the second semester of the senior year. In addition, the candidate will write a long paper during the first semester of that year equivalent to one semester course.

Three examinations: a general examination on the history of art; a field examination; and one testing the candidate's ability to analyze and to interpret original works of art.

UNIT

Second semester

Problems in the History of Art. Required of senior honors students. M 7:30. Members of the Department.

ASTRONOMY

ASSISTANT PROFESSOR:

FRANCIS MICHAEL STIENON, PH.D.

LECTURERS:

STEPHEN MILLER ADLER, M.S. (Instructor, Mount Holyoke College)

THOMAS T. ARNY, PH.D. (Assistant Professor, University of Massachusetts)

EDWARD R. HARRISON, F.INST.P. (Professor, University of Massachusetts)

WILLIAM MICHAEL IRVINE, PH.D. (Associate Professor, University of Massachusetts), *Chairman*

PETER D. USHER, PH.D. (Assistant Professor, Amherst College)

The astronomy department is a joint four-college department. Courses designated FC (four-college) are taught jointly with Amherst College, Mount Holyoke College, and the University of Massachusetts. The astronomical resources of all four institutions are available for advanced student use. In special cases, student research and thesis materials may be obtained from major observatories.

Astronomy 101, 121a, or 121b may be elected by the Class of 1967 to fulfill the science requirement in Group F. 101 will fulfill the science requirement for classes subsequent to 1967.

A student interested in an astronomy major should consult with the Department as early in her college career as possible. The prospective major is encouraged to begin her study of physics and mathematics as soon as possible.

- 101 *Introduction to Astronomy.* The motions and physical nature of the moon, the planets, comets, and meteors. Introduction to elementary astronomical spectroscopy and the laws of radiation. Hypotheses of the origin of the solar system, the structure of the sun. Study of stars, stellar systems, and recent theories of stellar and galactic evolution. Opportunity for laboratory work, astronomical observation, and the use of the Amherst College planetarium. Prerequisite: three entrance units of mathematics. Lectures and discussion. Th F S 9; laboratory-observation periods by arrangement. Mr Stienon.
- 121a *Topics in Astronomy.* Physics of the solar system. Physical study of planets, satellites, comets, asteroids, meteors; solar-terrestrial relationships, celestial mechanics, age and origin of the solar system. Background reading of original papers. Prerequisites: Mathematics 104a or b; Physics 115; or permission of the instructor. Open to qualified freshmen. Th 10-10:50, F 10-11:50. Mr Stienon.

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- 121b *Topics in Astronomy, continued.* Dynamics and structure of our galaxy. Stellar spectra, colors and magnitudes; the solar neighborhood; stellar populations; interstellar material. Prerequisites: Mathematics 104a or b; Physics 115; or permission of the instructor. Open to qualified freshmen. Th 10-10:50, F 10-11:50. Mr Stienon.
- 237a (FC37a) *Astronomical Observation, Reduction, and Analysis (I).* Fundamental astronomical catalogues and their uses; theory of the transit telescope; visual observation with the equatorial telescope and the transit; photography with the equatorial telescope; photographic photometry. Three hours of classroom work per week, of which some will be observing sessions to be arranged. Prerequisite: 101, or 121a and 121b, or permission of the instructor. T Th 2:15-3:30. Mount Holyoke College. Members of the Department.
- 238b (FC38b) *Astronomical Observation, Reduction, and Analysis (II).* Astronomical spectroscopy including line identification, plate calibration and radial velocity determination; photography of objective grating spectra; photoelectric photometry including determination of atmospheric extinction and extrapolation to stellar color indices and magnitudes outside the atmosphere; photoelectric light curves of variable stars. Three hours of classroom work per week, of which some will be observing sessions to be arranged. Prerequisite: 101, or 121a and 121b, or permission of the instructor. T Th 2:15-3:30. Members of the Department.
- 301a, b Special Studies. By permission of the Department for senior majors who have had three semester courses above the introductory level in astronomy.
- 343a (FC43a) *Astrophysics (I).* Basic topics in astronomy and astrophysics. General principles and the physical state of stellar interiors. Introduction to stellar structure and simple stellar models. Stellar evolution. Prerequisite: Physics 232a, 235a; or permission of the department. M F 2-4. Amherst College or University of Massachusetts. Members of the Department.
- 344b (FC44b) *Astrophysics (II).* Interaction of matter and radiation. Radiative transfer. Introduction to the physics of stellar and planetary atmospheres. Interplanetary and interstellar particles. Extraterrestrial radio emission. Prerequisite: Physics 232a, or permission of the department. M F 2-4. University of Massachusetts. Members of the Department.
- 340b Synoptic course, for 1966-67 only, designed to correlate the work in the major field.

See also the Intercollegiate Courses in the History of Science, p. 55.

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GRADUATE

[401 *Topics in Astrophysics.* Ionization in a plasma, radiation from stellar atmospheres, theory of planetary nebulae.]

THE MAJOR

Adviser: Mr Stienon.

Based on 101, or 121a and 121b.

Requirements: Ten semester courses, including the following: 237a (FC37a), 238b (FC38b) (or other combinations approved by the Department); Physics 115; Mathematics 202a or 202b and 222a, or the equivalent; and four additional semester courses, two in Astronomy, and two in related sciences or Mathematics.

Examinations in any two of the following fields: astronomy, celestial mechanics, astrophysics, cosmology and evolution, galactic structure, statistical astronomy.

HONORS

Director: Mr Stienon or other member of the joint department.

Prerequisites: 101, or 121a and 121b; Physics 115.

Requirements: Eight semester courses, including the following: 237a (FC37a), 238b (FC38b) (or other combinations approved by the Department); Mathematics 202a or b, 203a or b; and at least two additional semester courses in Physics, and two in Mathematics; and a thesis equivalent to two semester courses on a topic approved by the Department.

Three examinations: Two field examinations selected from those listed under the major and an oral examination on the thesis.

BACTERIOLOGY AND PUBLIC HEALTH

See The Biological Sciences, p. 70.

BOTANY

See The Biological Sciences, p. 68.

THE BIOLOGICAL SCIENCES

PROFESSORS:	LOIS EVELYN TE WINKEL, PH.D. ESTHER CARPENTER, PH.D., D.SC. (HON.) ELINOR VAN DORN SMITH, PH.D. **ELIZABETH SANDERS HOBBS, D.SC. ELIZABETH DOROTHY ROBINTON, PH.D., <i>Chairman</i> KENNETH E. WRIGHT, PH.D. B. ELIZABETH HORNER, PH.D. †GEORGE WARREN DE VILLAFRANCA, PH.D.
ASSISTANT PROFESSORS:	DAVID ANDREW HASKELL, PH.D. CARL JOHN BURK, PH.D. ELIZABETH ANN TYRRELL, PH.D. JOHN DUNNING DAVIS, PH.D. NATHAN SHAPIRO, PH.D. DOROTHY MERRILL, PH.D. ARNOLD E. S. GUSSIN, PH.D.
HORTICULTURIST:	WILLIAM I. P. CAMPBELL
TEACHING FELLOWS:	MARY ROSE CASTELLI, A.M. JO-ANN HAMMONS, M.S. ELLEN CHIEU-SUEY LIN, B.SC. SEVGI BOKE STANLEY, A.M. LACY ALSTON COLSON, B.S. DONNA JEAN MAIN, B.A.
LECTURERS:	MARY HODGE LAPRADE, PH.D. PAUL HOWE SHEPARD, PH.D.

BOTANY

Among the courses which may be taken to fulfill the requirement in Group F/G for the Class of 1967 are 111a and b.

Unless otherwise stated, the prerequisite for all courses above the introductory level is 111a and b, or permission of the instructor.

Sophomores may elect advanced courses with the permission of the instructor.

Any laboratory course offered by the Department may be used to fulfill part of the science requirement for classes subsequent to 1967.

- 111a *General Botany.* A study of the life processes and structures of the seed plants with some emphasis on the relationships between seed plants and man. Two lectures and two two-hour laboratory periods. Lec. Th F 12; lab. M T 9, 11, 2; Th F 9, 2. Mr Wright (*Director*), Mr Haskell, Mr Burk.

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- 111b *General Botany*. A study of nuclear and cell division, heredity, and evolutionary trends as demonstrated by selected plant types. Two lectures and two two-hour laboratory periods. Lec. Th F 12; lab. M T 9, 11, 2; Th F 9, 2. Mr Wright (*Director*), Mr Haskell, Mr Burk.
- 227a, b *Horticulture*. Theory and practice of plant cultivation and improvement, with a study of the species commonly cultivated and the preparation of gardens. Only one semester may be counted toward fulfillment of the science requirement. Two lectures, two two-hour laboratory periods. Lec. Th F 10-12:50. Mr Campbell.
- 221a *Conservation of Natural Resources*. Basic ecological principles and their application to the conservation for human society of soil, water, vegetation, and wildlife. Two hours of lecture and discussion and one fall field trip. Lec. Th 7:30-9:30. Mr Burk.
- [235a *Plant Physiology I*. A study of diffusion, water relations, photosynthesis, respiration, and allied processes. Two lectures, two two-hour laboratory periods. M T W 11-12:50. Mr Wright.]
- 231a *Plant Morphology*. An evolutionary survey of the plant kingdom. Intensive studies in the structure, reproduction, phylogeny, classification, and significance of selected vascular and non-vascular plants. Three hours of lectures, two hours of laboratory. W 7:30-9:30, and three hours to be arranged. Mr Haskell.
- 236b *Systematics*. Classical and modern approaches to the taxonomy of higher plants, with emphasis on evolutionary trends and processes, and principles of classification. Field work. Two lectures, three hours of laboratory. Lec. Th F 2, lab. hours to be arranged. Mr Burk.
- [335b *Plant Physiology II*. A study of growth and development as influenced by internal and external factors. Prerequisite: 235a. Two lectures, two two-hour laboratory periods. M T W 11-12:50. Mr Wright.]
- 331b *Plant Anatomy*. A study of the microscopic structure of the vegetative and reproductive organs of seed plants. Prerequisite: 231a or permission of the instructor. Two hours of lecture, three hours of laboratory. W 7:30-9:30, and three hours to be arranged. Mr Haskell.
- 336a *Plant Ecology*. A study of plant communities and the relationships between plants and their environment, emphasizing field work and review of current literature. Two lectures, three hours of laboratory. Lec. Th F 2, lab. hours to be arranged. Mr Burk.

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340a A research project correlating material from various fields, leading to a paper to be completed in the second semester. Members of the Department.

341, 341a, 341b Special Studies: work in morphology, anatomy, physiology, taxonomy, ecology. By permission of the Department. Members of the Department.

Graduate

450, 450a, 450b Research and Thesis. (*May be taken for double credit*).

451, 451a, 451b Advanced studies in the fields of morphology, anatomy, physiology, taxonomy, ecology. Members of the Department.

456a, 456b Seminar on recent advances and current problems in botany. Selected topics for reading and individual reports. Members of the Department.

THE MAJOR

Adviser: Mr Burk.

Based on 111a and 111b.

Requirements: Eight semester courses, including the following: 231a, 235a, 236b, 340a, and at least four semester courses in the Department or in Chemistry, Geology, Mathematics, Microbiology, Physics, Zoology. The 340a paper must be in the field of concentration.

Two examinations: one in one of the three departmental fields; the second in general botany.

Fields: A. Plant Physiology (235a, 335b).

B. Plant Morphology and Plant Anatomy (231a, 331b).

C. Systematics and Plant Ecology (236b, 336a).

HONORS

Director: Mr Wright.

Based on 111a and 111b.

Requirements: Eight semester courses, as in the major; a long paper (a semester of independent work); and 341a or b.

Three examinations: two written examinations: one in the field of general botany, one in one of the three departmental fields; and an oral examination.

MICROBIOLOGY AND PUBLIC HEALTH

Microbiology 100a or 102b will fulfill one semester of the science requirement. Students planning to major in Microbiology are advised to take 100a and 101b, and Chemistry 111a and 111b or the equivalent before the junior year.

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- 100a *Introductory Bacteriology*. Distribution, classification, and general morphology of bacteria, followed by an introduction to bacterial physiology and methods of controlling bacterial growth. Prerequisite: Chemistry 111a or the equivalent. Two lectures and two two-hour laboratories. Lec. M T 10; lab. M 3:20-5:10, W 10-11:50. Miss Tyrrell.
- 101b *General Microbiology*. Isolation, cultivation, and characterization of various metabolic types of microorganisms by means of enrichment techniques and manipulation of environmental conditions. Prerequisites: 100a; Chemistry 111a and b or the equivalent. Two lectures and two two-hour laboratories. Lec. M T 10; lab. M 3:20-5:10, W 10-11:50. Miss Tyrrell.
- 102b *Microorganisms of Importance to Man*. A study of microbial activities in relation to the life of the individual and the community. Primarily for non-science majors. (This course does not count in the major.) Two lectures and two hours of laboratory and demonstration. Lec. M T 10; lab. W 10-11:50. Miss Smith, Miss Robinton.

General Microbiology

- 200b *Principles of Virology*. Introduction to current concepts of virus multiplication and effects on host cells; techniques of virus propagation; and methods of titration and neutralization. Prerequisites: 100a, 101b, the first semester of 201, Chemistry 222. Two lectures, one three-hour laboratory, one hour to be arranged. Alternates with 302b. Lec. M T 2:20; lab. T 3:20-6:10. Miss Tyrrell.
- [300a *Bacterial Physiology*. A comprehensive study of bacterial cytology, physiology and genetics. Prerequisites: 100a, 101b, Chemistry 222. Two lectures, one three-hour laboratory, and one hour to be arranged. Lec. M T 2:20; lab. T 3:20-6:10. Miss Tyrrell.]

Pathogenic Microbiology

- 201 *Pathogenic Bacteriology and Immunology*. An introduction to immunological theory with applications of bacteriological and serological methods for the identification of pathogenic bacteria. Prerequisites: 100a and 101b. One hour of lecture and five hours of laboratory. Lec. Th 2; lab. Th 3:20-5:10, F 2-5:10. Miss Smith.
- [302b *Pathogenic Fungi*. A study of the fungi of medical importance to man through morphological, cultural, and serological methods. Prerequisites: 100a, 101b,

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and the first semester of 201. Two lectures and two two-hour laboratories. Lec. M T 10; lab. M 3:20-5:10, W 10-11:50. Alternates with 200b. Miss Robinton.]

Public Health

- 210a *Concepts of Public Health.* The development of the modern public health movement since its inception, with emphasis on the period from the sanitary awakening of the nineteenth century to the present day. Basic concepts and current activities of official and non-official organizations will be evaluated. Th 10, F 10-11:50. Miss Robinton.
- 211b *Environmental Health.* An analysis of the problems of public health created by man in his environment including a survey of the control measures currently applied to housing, and the contamination of the atmosphere, water, and food supplies. Th 10, F 10-11:50. Miss Robinton.

Seminars

- 310b *Health Education.* Problems in the dissemination of accurate public health information to the individual and to the community. Th 7:30. Miss Robinton.
- 320a *Backgrounds of Microbiology.* A survey of the discoveries and developments in scientific thinking which culminated in the science of microbiology. Prerequisite: 100a. W 7:30. Miss Robinton.
- 321b *Modern Concepts in Microbiology.* Recent developments in microbiology and immunology. Directed readings and group discussions. W 7:30. Members of the Department.

THE MAJOR

Adviser: Miss Robinton.

Based on 100a and 101b.

Requirements: eight semester courses, including the following: Chemistry 221b and 222; Microbiology 201 and 321b; and two optional courses to be chosen from the department offerings or from the following: Botany 231a, 235a, 335b; Chemistry 231a and b, 332a, 342a; Mathematics 103a or b; Physics 115; Zoology 100a or 101b or any course(s) in Molecular, Cellular and Developmental Zoology or Organismal and Regulatory Zoology.

Two examinations: one in general microbiology, the second in one of the departmental fields.

Fields: General Microbiology, Pathogenic Microbiology, Public Health.

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HONORS

Adviser: Miss Tyrrell.

Requirements: the same as those for the major with the addition of 320a and a thesis.

During the senior year the student will devote the equivalent of two semester courses to research and the thesis.

Three examinations: a comprehensive examination in microbiology; a departmental field examination; an examination on a selected specific topic.

GRADUATE

Courses will be available as needed and may be open to seniors by special permission if they have satisfactorily completed all the requirements for the major except the final examinations. A reading knowledge of at least one foreign language is required.

Adviser of graduate study: Miss Tyrrell.

400 Research and Thesis

401, 401a, 401b *Problems in Microbial Cytology and Physiology.*

402, 402a, 402b *Problems in Virology.*

403, 403a, 403b *Problems in Pathogenic Bacteriology.*

404, 404a, 404b *Problems in Immunology.*

405, 405a, 405b *Problems in Pathogenic Fungi.*

ZOOLOGY

Any laboratory course for which the student has the prerequisite will fulfill for the Class of 1967 the distribution requirement in Division III. Courses which may be used to fulfill the science requirement for classes subsequent to 1967 are: 100a, 101b, and any laboratory course in the departmental fields for which the student has the prerequisites.

Students planning to major in Zoology are advised to take introductory courses in two of the three fields in the freshman year. A prerequisite for all of these courses is 100a or its equivalent (advanced placement, or an examination given by the department). Physics 115 and Mathematics 104a or b are strongly recommended. All majors are required to have at least one semester of introductory Chemistry and should note that Chemistry 222 is a prerequisite for several courses.

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- 100a *Principles of the Biological Sciences.* An introduction to the study of organisms centering on the evolution of systems by which the problems of the continuity and elaboration of life in the biosphere are met. The processes of self-maintenance, reproduction, dispersal and interrelationships are examined as common to all organisms. Lec. M T W 9; one three-hour lab. M T Th F 2, Th 10. Mrs Hobbs, Mrs Laprade, Mr Shepard, Mr Gussin.
- 101b *Mammalian Zoology.* A study of the structure and function of mammalian organ systems with an emphasis on man. (This course may not be used to fulfill the requirements for the major.) Prerequisite: 100a or its equivalent. Lec. M T 11, W 12; one three-hour lab. M Th 2. Miss Te Winkel and members of the Department.
- 300b *Ecology of Man.* An introduction to those elements of biology by which man as an evolving organism is related to his natural environment, and the principles of general ecology which are applicable to the study of man. (This course may not be used to fulfill the requirements for the major.) Lec. M T W 9. Mr Shepard.

A. Molecular, Cellular and Developmental Zoology

- 102a *Cell Biology.* Cellular organization, metabolism, reproduction, and differentiation in representative examples from plants, animals, and unicellular organisms. Prerequisite: Chemistry 111a and b, or 112a. Lec. M T 11, W 12; one three-hour lab. Th F 2. Mr Shapiro, Miss Merrill, Miss Tyrrell.
- 103b *Genetics.* A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite: any introductory Zoology course or Botany 111a and b, or permission of the instructor. Lec. Th F 2; one two-hour lab. Th F 3:20 and independent work. Mr Shapiro and members of the Department.
- 201a *Cell Physiology.* Molecular and cellular aspects of contractility, irritability, conductivity, permeability and respiration. Prerequisites: 102a, Chemistry 222, and Physics 111, or permission of the instructor. Lect. M T W 9; three hours of lab. M T 2. Miss Merrill, Mr Gussin.
- 202a *Embryology.* A study of gametes, fertilization, cleavage, gastrulation and the early development of organ systems in amphibians, birds, and mammals. Prerequisite: 104a or permission of the instructor. Lec. and lab. Th F 2-5. Miss Te Winkel.
- 302b *Molecular Biology.* The molecular basis of cell structure and function, with particular emphasis on protein structure, function and synthesis. Prere-

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quisites: 201a and Chemistry 222. Lec. M T W 10; one three-hour lab. T 2. Mr Gussin.

- 303b *Experimental Embryology*. A study of the experimental evidence for interacting systems in fertilization and in the differentiation of tissues and organs. Pre-requisite: 202a. Th F 2-5:10. Miss Te Winkel.

B. Organismal and Regulatory Zoology

- 104a *Vertebrate Zoology*. Evolution of form and function in vertebrates. Lec. M T W 10; lab. Th F 9-10:50 or 2-3:50. Miss Horner.
- 105b *Invertebrate Zoology*. A study of a wide variety of invertebrate animals with emphasis on their unique features as individual animals and their phylogenetic relationships. Lec. Th F 9; lab. Th F 10-11:50, 2-3:50. Mrs Laprade and members of the Department.
- 203a *Histology*. A study of animal tissues including their origin; differentiation; functions; changes with environment and with age; and their arrangement in organs. Prerequisites: 102a and either 101b or 104a. Lec. or dem. Th F 9; lab. Th F 11-12:50. Miss Carpenter.
- 204a *Protozoology*. Free-living and parasitic protozoa, their relationships to each other and to other animals including man. Prerequisite: 100a or an equivalent. Lec. Th F 9; lab. Th F 10-11:50. Mrs Hobbs.
- 304b *Comparative Physiology*. A study of homeostatic and integrative mechanisms in vertebrates and invertebrates. Prerequisites: 102a, 104a, 105b, or permission of the instructor. Lec. M T W 9; one three-hour lab. M 2. Miss Merrill.
- 305b *Endocrinology*. A study of the role of the glands of internal secretion in regulating the activities of the organism; their development and changes with age; and their microscopic identification under normal and experimental conditions. Prerequisites: 203a and at least two semesters in Field A. Lec. Th F 9; lab. Th F 11-12:50. Miss Carpenter.

C. Ecological Zoology

- 106a *Principles of Ecology*. A study of the relation of plants and animals to each other, as well as to the physical and chemical factors operating upon them in different environments. Attention is given to populations, energy relationships, limiting factors, community organization, and succession. Lec. M T W 12; three hours of lab. or field work M T 2. Mr Davis and members of the Department.

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- 107b *Evolution and Systematics*. Exploration of the processes producing direction and order in evolution and increasing the diversity of life through the formation of new species. Lec. M T 11, W 12. Miss Horner, Mr Shepard.
- [205b *Biogeography*. Study of major patterns of the distribution of life and of the environmental and historical factors determining these patterns. Prerequisite: 106a or 107b. Given in alternate years. Two two-hour meetings. Miss Horner.]
- 206b *Quantitative Ecology*. A study of the characteristics of communities, populations and ecosystems with biometric analysis of some of their features. Prerequisite: 106a. Lec. and lab. Th F 2-5. Mr Davis.
- [306a *Population Genetics*. Principles of population genetics emphasizing genetic structure of populations. Forces changing gene frequencies in populations. Prerequisite: 103b. Lec. M T W 2. Mr Shapiro.]
- 307b *Animal Behavior*. Study of vertebrate and invertebrate behavior: orientation, navigation, and migration; activity rhythms; social behavior, with emphasis on problems of communication; ethograms; learned and unlearned behavior as related to ecology and evolution. Prerequisites: three semesters from Fields B and C. Lec. Th 11-12:50; lab. T 2-6:10. Miss Horner.

SEMINARS

- [310a or b A seminar in each of the Fields A, B and C. One semester required of senior majors after 1966-67. W 2. Members of the Department.]
- 320a or b Special Studies. By permission of the Department for senior majors who have passed one field examination. Members of the Department.
- 330a or b Honors research project, paper, review, and coordination. Members of the Department.
- 340b Recent Advances in Zoology (for the year 1966-67). Two hours in addition to independent work. Hours to be arranged. Members of the Department.

GRADUATE

Adviser of graduate study: Miss Carpenter.

Courses will be offered in each field as needed. They are open by permission to seniors who have satisfactorily completed all requirements for the major except the final examinations. A reading knowledge of one or more foreign languages is desirable.

See also the Intercollegiate Courses in the *History of Science*, p. 55.

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- 401a *Fine Structure of Cells and Tissues*. Prerequisites: 201a, 203a; recommended, 302b. Two-hour seminar. T 11-12:50 and four or more hours of independent work. Miss Carpenter.
- [402b *Comparative Invertebrate Embryology*. An intensive study and comparison of developmental stages and modes of reproduction among the invertebrate phyla with particular emphasis upon the phylogenetic relationships. To alternate with 206b. Prerequisites: 105b, 202a. Three hours of lecture. Mr Davis.]
- 410a *Advanced Vertebrate Anatomy*. Detailed comparative analysis of one or more organ systems with emphasis on functional and evolutionary considerations. Prerequisites: 104a, 202a, 203a. One hour of lecture and five or more hours of independent laboratory work. Miss Horner.
- [411b *Physiological Genetics*. A study of research bearing on the problems of gene action and interaction. Prerequisites: 103b, 302b, or the equivalent; recommended: Chemistry 342a. Three lectures. Mr Shapiro.]
- 420a or b Thesis. Members of the Department.
- 421a or b Advanced Studies. Members of the Department.
- 422a or b Recent Advances in Zoology. Reading and reports. Members of the Department.

THE MAJOR

Advisers: Members of the Department.

Based on 100a or its equivalent, and an introductory course in one of the three fields listed below.

Requirements: Nine semester courses, so distributed that competence is gained in two fields and at least one course taken in the third, and including a seminar in one field.

Examinations in two of the three fields. One examination may be taken at the end of the junior year by students who have completed three courses above the introductory level in the given field.

- Fields: A. Molecular, Cellular, and Developmental Zoology
B. Organismal and Regulatory Zoology
C. Ecological Zoology

HONORS

Director: Miss Horner.

Basis: the same as that for the major.

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Requirements: Eight semester courses so selected that competence is gained in two fields and at least one course is taken in the third field; a seminar; and 330a or b (which includes the long paper).

Three examinations: a field examination, to be taken no later than the first semester of the senior year, in a field in which the student has completed at least one intermediate and one advanced course; and two examinations at the end of the senior year, one covering two fields in the major department and one which will constitute an oral presentation and defense of the thesis.

MAJOR IN THE BIOLOGICAL SCIENCES

Advisers: Mr Burk, Mr Davis, Miss Merrill, Mr Shapiro, Miss Robinton.

Based on: Botany 111a and Zoology 104a or the equivalent.

Majors are advised to take Chemistry 111a and b or 112a and Physics 115.

Requirements: Ten semester courses including the following: Microbiology 100a; Botany 111b; Zoology 102a, 103b and 105b; and five additional courses elected from the offerings in Botany, Microbiology and Zoology to include one course in ecology.

Two examinations: a field examination in one of the divisions of the department and an examination in general Biology.

PREMEDICAL COURSES

Advisers: Mrs Hobbs, Miss Tyrrell.

Students may prepare for medical school by majoring in any department, if they include in their programs courses considered to represent the minimum requirements for entrance to most medical schools. These courses are: Zoology 100a, 104a, 105b, Chemistry 111a and b or 112a, and 222, and Physics 111 or 115. Other courses often recommended are Zoology 103b, 201a, 202a; Chemistry 231a, b; Mathematics 104a or b.

Since medical schools differ in their requirements, it is advisable for students to anticipate in the spring of their freshman year the three or four medical schools of their choice, so that they may inquire about their courses accordingly. It is desirable for those interested in premedical preparation to elect four semesters of science or mathematics in their freshman year.

CHEMISTRY

PROFESSORS:	KENNETH WAYNE SHERK, PH.D. MILTON DAVID SOFFER, PH.D. GEORGE STONE DURHAM, PH.D.
ASSISTANT PROFESSORS:	GEORGE MORRISON FLECK, PH.D. KENNETH PAUL HELLMAN, PH.D., <i>Chairman</i> THOMAS HASTINGS LOWRY, PH.D.
TEACHING FELLOWS:	LÂLE AKA BURK, A.M. JUDITH BARRETT TREDWELL, A.M. SUSAN ADAIR LAZARUS, A.B. DONNA GABOURY JARA, A.B. KATHLEEN THERESA TINSLEY, B.S.

Among the courses which may be taken by the Class of 1967 to fulfill the requirement in Group F/G are 111a, 111b, 112a, 221b and Physical Science 193. These courses will also fulfill the science requirement for classes subsequent to 1967. (For Physical Science 193, see p. 15).

Students who are planning to major in chemistry should elect 112a and 221b (or 111a and 111b) in freshman year. They are advised to complete Mathematics 102a and 103b, or 103a and 104b, or 104a and 202b the first year, and Physics 115 the second year.

Students presenting entrance units in chemistry who elect 111a and b, or 112a and 221b are required to take the Departmental screening examination at the opening of College before the beginning of classes. On the basis of this examination, selected students will be given the opportunity to enter 112a.

Students who have received scores of 4 or 5 on the Advanced Placement examination may enter 222 and 221b in the freshman year. Others with comparable preparation and superior performance in the Departmental screening examination may also be allowed advanced placement.

111a *General Chemistry.* A basic course with emphasis on the relationships of the properties of matter to atomic and molecular structure. Fundamental principles of structure are developed; quantitative methods are stressed in the laboratory. Students who have not previously taken chemistry are required to attend one additional discussion period in the first semester. Three hours of lecture and one three-hour laboratory period. Lec M T W 12 (additional discussion period M 11); lab. M T Th F 2-5:10. Mr Hellman.

CHEMISTRY

- 111b *General Chemistry*. The dependence of properties on structure is discussed; aspects of equilibria are studied in the laboratory, using methods of qualitative and quantitative analysis. Three hours of lecture and one three-hour laboratory period. Prerequisite: 111a. Lec. M T W 12; lab. M T Th F 2-5:10. Mr Hellman.
- 112a *General Chemistry, Upper Section*. General chemistry, with emphasis on comparative chemistry and equilibrium. Experiments utilizing quantitative analytical techniques are stressed in the laboratory. Open to selected students. Three hours of lecture and one three-hour laboratory period. Lec. M T W 12, and M 11 at the option of the instructor; lab. M 2-5:10. Mr Sherk.
- 221b *Structure and Energetics in Chemistry*. Applications of the principles of quantum theory, symmetry, equilibrium thermodynamics, and kinetics to problems in chemical structure and chemical reactivity. Prerequisite: 111a and b or 112a, or advanced placement. Three hours of lecture and one three-hour laboratory period. Lec. M T W 12; lab. M 2-5:10. Mr Fleck.
- 222 *Organic Chemistry*. An introductory course in the theory and practice of organic chemistry. Prerequisite: 111a and b or 112a, or advanced placement. Four hours of lecture and one three-hour laboratory period. Lec. M T W 10, W 11; lab. M T Th 2-5:10. Mr Soffer, Mr Lowry.
- 231a *Physical Chemistry*. Theoretical chemistry, including thermodynamics and kinetics. Prerequisite: 221b (after 1967-68), Mathematics 104a or b, and Physics 115, or by permission of the instructor. Four hours of lecture and one three-hour laboratory period. Lec. M T W 12, T 11; lab. M T 2-5:10. Mr Durham.
- 231b *Physical Chemistry*. Phase rule, electrochemistry, and introductory quantum theory. Prerequisite: 231a. Four hours of lecture and one three-hour laboratory period. Lec. M T W 12, T 11; lab. M T 2-5:10. Mr Durham.
- 301, 301a, 301b Special Studies. By permission of the Department for senior majors.
- 332a *Organic Qualitative Analysis*. The separation, characterization, and identification of organic substances; theory and practice. Prerequisite: 222. Two hours of lecture and two three-hour laboratory periods. Lec. Th F 12; lab. Th F 2-5:10. Mr Lowry.
- 333b *Quantitative Chemistry*. A quantitative study of equilibria in solution, especially as applied to volumetric and gravimetric methods of chemical analysis. Prerequisite: 231a. Two hours of lecture and two three-hour laboratory periods. Lec. Th F 12; lab. Th F 2-5:10. Mr Fleck.
- 340b *Integrating Project* (for the Class of 1967). Members of the Department.

CHEMISTRY

- 342a *Biochemistry*. The chemistry of biologically active substances. Prerequisites: 222, 231a (concurrent registration in 231a by permission of the instructor), and an introductory course in a biological science. Three hours of lecture and one three-hour laboratory period. Lec. Th F 8:40-9:50; lab. M 2-5:10. Mr Hellman.
- 343a *Theoretical Organic Chemistry*. The relationship of molecular structure to chemical properties, with emphasis on organic reaction mechanisms. Prerequisites: 222, 231a and b, or by permission of the instructor. Three hours of lecture. Th F 10, F 11. Mr Lowry.
- 344b *Advanced Inorganic Chemistry*. Selected topics with emphasis on structural considerations. Prerequisites: 222, 231a and b, or by permission of the instructor. Two hours of lecture and one three-hour laboratory period. Lec. W 7:30-9:30; lab. M 2-5:10. Mr Sherk.
- 345a *Molecular Structure*. Current theories of molecular structure, and physical methods used in its investigation. Emphasis on the methods of group theory and of quantum mechanics. Electron, neutron, and X-ray diffraction; microwave, infra-red, Raman, and ultra-violet spectroscopy. Prerequisites: 222, 231a and b, or by permission of the instructor. Lec. M T 8:40:9:50. Mr Fleck.

GRADUATE

Adviser of graduate study: Mr Soffer.

Open to seniors by permission of the Department. It is suggested that students majoring in chemistry take at least one graduate course.

450, 450a, 450b *Research and Thesis*.

451a, 451b *Special Studies*.

455a *Chemical Kinetics*. Relationship between rates and mechanisms of chemical reactions, with emphasis on homogeneous reactions in solution. Prerequisites: 231a and b, or their equivalent. Mr Fleck.

[455b *Statistical Thermodynamics*. Development of statistical mechanics according to the method of Gibbs, with emphasis on applications to chemical systems, and on relations between spectra and the thermodynamic functions. Introduction to thermodynamics of irreversible processes, and to non-equilibrium thermodynamics. Prerequisites: 231a and b, or their equivalent. Mr Fleck.]

457b *Selected Topics in Biochemistry*. A detailed treatment, from the chemical standpoint, of selected topics of current biochemical interest. Prerequisites: 231a, 342a, and an introductory course in a biological science, or by permission of the instructor. Mr Hellman.

CHEMISTRY

- 458b *Organic Reactions.* Discussion of selected organic reactions of current interest, with emphasis on theoretical aspects. Prerequisite: 343a or by permission of the instructor. Mr Lowry.
- 459b *Carbocyclic Natural Products.* The chemistry of terpenic and steroid substances, with particular emphasis on methods of structural investigation and synthesis. Mr Soffer.

THE MAJOR

Advisers: Members of the Department.

Based on 222.

Requirements: Eight semester courses, including the following: 231a and b, 333b, and two additional courses in chemistry; Mathematics 104a or the equivalent; and Physics 115.

Recommended courses: Mathematics 202a or b, German 111 or Russian 101, and Chemistry 332a, 344b, 345a.

The above program, including both required and recommended courses, meets the requirements of the American Chemical Society for eligibility for professional standing.

Two examinations: one covering, at an intermediate level, general, organic, and physical chemistry, to be taken at the end of the junior year; the other, a field examination, normally to be taken at the end of the senior year.

Fields: Physical Chemistry.

Inorganic Chemistry.

Organic Chemistry.

Biochemistry.

HONORS

Director: Mr Durham.

Based on 222.

Requirements: Eight semester courses, including the following: 231a and b, 333b, and two additional courses in chemistry, Mathematics 104a or the equivalent, and Physics 115; and an honors unit involving an individual investigation pursued throughout the senior year.

Recommended courses: Mathematics 202a or b, German 111 or Russian 101, and Chemistry 332a, 343a, 344b, 345a.

Three examinations: two written examinations, one in the area of physical and inorganic chemistry, and one in the area of organic chemistry (and biochemistry); and an oral presentation of the honors thesis.

CLASSICAL LANGUAGES & LITERATURES

PROFESSORS:	GEORGE EDWARD DIMOCK, JR., PH.D. CHARLES HENDERSON, JR., PH.D., <i>Chairman</i>
INSTRUCTORS:	ROBERT THEODORE S. BAXTER, A.B. ANN CORNELL SHEFFIELD, A.M.

For the Class of 1967, the requirement in Group A may be fulfilled by six hours of ancient literature in the original, or six hours of ancient literature in translation. Greek 212a and b or Latin 214a and b will fulfill both the foreign language requirement and the distribution requirement in Group A. The following are primarily language courses, and do not count for distribution: Greek 111, Latin 111.

For classes subsequent to 1967, the special requirement in a foreign language may be met by Greek 212a and b or Latin 112a and b; or by any two semester courses at a higher level; or by a special examination in Greek or Latin to be given during the registration period.

Students planning to major in classics or in ancient studies are advised to take relevant courses in other departments, such as art, history, philosophy, and modern languages.

A major is offered in Greek, Latin, Classics, and Ancient Studies.

GREEK

- 111 *Elementary Course.* Introduction to the language; selections from Greek literature. Five class hours. T W Th F S 9. Miss Sheffield.
- 212a *Plato: Selected Dialogues.* Prerequisite: two units in Greek or 111. M T W 10. Mr Dimock. (L)
- 212b *Homer, Iliad.* Prerequisite: 212a or permission of the instructor. M T W 10. Mr Dimock. (L)
- 301a, 301b *Special Studies.* By permission of the Department for majors who have had four advanced courses in Greek.
- [321a *The Drama: Sophocles and Euripides.* Prerequisite: 212b or three units in Greek. To be given in 1967-68. (L)]
- [322b *Homer.* Prerequisite: 321a or permission of the instructor. To be given in 1967-68. (L)]

CLASSICAL LANGUAGES & LITERATURES

- 323a *Herodotus*. Prerequisite: 212b or three units in Greek. W Th F 2:20. Miss Sheffield. (L)
- 324b *The Drama: Aeschylus and Aristophanes*. Prerequisite: 323a or permission of the instructor. W Th F 2:20. Miss Sheffield. (L)
- [331a *Greek Historians*. Prerequisite: 322b, 324b, or permission of the instructor. M T W 12. Mr Dimock.]
- [332b *Drama*. Prerequisite: 322b, 324b, or permission of the instructor. M T W 12. Mr Dimock.]
- 333a *Selections from Lyric and Pastoral Poets*. Prerequisite: 322b, 324b, or permission of the instructor. M T W 9. Mr Dimock.
- 334b *Plato*. Prerequisite: 322b, 324b, or permission of the instructor. M T W 9. Mr Dimock.
- 451a, 451b *Studies in Greek Literature*. (This will ordinarily be an enriched version of 331a, 332b, 333a, or 334b.)

Adviser of graduate study: Mr Dimock.

LATIN

- 111 *Elementary Course*. Introduction to the language; selections from Latin literature. Five class hours. T W Th F S 9. Mr Baxter.
- 112a *Poetry of Ovid*. Prerequisite: two units in Latin or 111. Th F S 10. Mr Baxter. (L)
- 112b *Virgil, Aeneid*. Prerequisite: 112a or permission of the instructor. Th F S 10. Mr Baxter. (L)
- 214a *Catullus and Horace*. Prerequisite: 112b or three units in Latin, including Virgil. W Th F 3:20. Mr Baxter. (L)
- 214b *Livy*. Prerequisite: 214a or permission of the instructor. M T W 3:20. Mr Henderson. (L)
- 301a, 301b *Special Studies*. By permission of the Department for majors who have had four advanced courses in Latin.

CLASSICAL LANGUAGES & LITERATURES

- [321a *Roman Comedy*. Prerequisite: 214b or permission of the instructor. To be given in 1967-68.]
- [322b *Medieval Latin*. Prerequisite: 214b or permission of the instructor. To be given in 1967-68.]
- 323a *Sallust and Tacitus*. Prerequisite: 214b or permission of the instructor. M T W 3:20. Mr Henderson.
- 324b *Latin Elegy and Pastoral Poetry*. Prerequisite: 214b or permission of the instructor. W Th F 3:20. Mr Baxter.
- 333a *Virgil*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. M T W 11. Mr Henderson.
- 334b *Latin Satire*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. M T W 9. Mr Henderson.
- [335a *Cicero*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. To be given in 1967-68.]
- [336b *Lucretius*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. To be given in 1967-68.]
- 337 *History of Latin Literature*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. M T W 12. Mr Henderson.
- 451a, 451b *Studies in Latin Literature*. (This will ordinarily be an enriched version of 333a, 334b, 335a, or 336b.)

Adviser of graduate study: Mr Henderson.

CLASSICS IN TRANSLATION

- 118a *Masterpieces of Classical Literature I*, including such words as Homer's *Odyssey*; Hesiod; Greek Lyric Poetry; Aeschylus' *Oresteia*; Sophocles' *Antigone*, *Oedipus the King*, *Electra*; Herodotus. Th S 11-11:50, F 12-12:50. Miss Sheffield.
- 118b *Masterpieces of Classical Literature II*, including such works as Thucydides' *History*; Euripides' *Alcestis*, *Medea*, *Hippolytus*, *Bacchae*; Plato's *Republic*, *Phaedo*; Lucretius' *De Rerum Natura*; Virgil's *Aeneid*; St. Augustine's *Confessions*. Th S 11-11:50, F 12-12:50. Miss Sheffield.

CLASSICAL LANGUAGES & LITERATURES

[227a *Classical Romance, Pastoral and Satire*. Prerequisite: a semester course in literature, or permission of the instructor.]

[229b *Classical Drama*. Prerequisite: a semester course in literature, or permission of the instructor.]

THE MAJOR IN GREEK, LATIN, OR CLASSICS

Advisers: Greek, Mr Dimock; Latin and Classics, Mr Henderson.

Basis: In Greek, 111; in Latin, 112b; in Classics, both.

Requirements: In Greek, eight semester courses in the language; in Latin eight semester courses in the language, including 337; in Classics, eight semester courses in the languages, including at least two in one language.

Two examinations: one, a comprehensive examination, will have two parts: part one, to be taken before the end of the junior year, will test the candidate's ability to read Greek or Latin, or both; part two, which may be taken later, will test her general knowledge of Greek or Roman literature and culture, or both. The second examination will test the candidate's mastery of her special field. Classics majors may choose from the fields listed under Greek and Latin as well as from those listed under Classics.

Fields: Greek: Homer; Athenian Drama; Historians; Plato; Selected Authors.

Latin: Literature of the Republic; Literature of the Empire; Augustan Literature; Roman Historians; Selected Authors.

Classics: Epic; Lyric; Historians; Comedy; Drama; Satire; Philosophical Writing.

HONORS IN GREEK, LATIN, OR CLASSICS

Directors: In Greek, Mr Dimock; in Latin, Mr Henderson; in Classics, Mr Dimock.

Requirements: The same as those for the major, with the addition of a long paper, equivalent to one or two semester courses, to be written in the first semester of the senior year.

Three Examinations: One in Latin, or Greek, or in both languages, to be taken at the end of the junior year; a departmental examination in Greek or Roman literature and culture, or both; and a field examination in classical literature.

ANCIENT STUDIES

For description of the Interdepartmental Major in Ancient Studies, see p. 195.

ECONOMICS

PROFESSORS:	†DOROTHY CAROLIN BACON, PH.D. GEORGE FISK MAIR, PH.D. KENNETH HALL MCCARTNEY, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	ROBERT TABOR AVERITT, PH.D.
ASSISTANT PROFESSORS:	PETER MYLES COSTELLO, PH.D. ROBERT DEAN BRITT, PH.D. DAVID ALLAN OLSON, A.M. FRED HENRY LEONARD, PH.D.
INSTRUCTOR:	GERALD LOUIS FOX, M.A.
LECTURERS:	¹ ARNOLD COLLERY, PH.D. ¹ REUBEN G. MILLER, PH.D.

Economics 110a, b may be taken by the Class of 1967 to fulfill the distribution requirement in Group E.

Freshmen who are considering a major in the Department and who hope to spend their junior year abroad are strongly advised to take 110a and 110b in the freshman year and to take additional courses in economics in their sophomore year.

A. General Courses

- 110a *The Structure and Functioning of Modern Economies.* An introduction to the economics of national income, employment, and economic growth; the major determinants of prosperity, recession, and depression including money and the banking system, saving and investment, and the economic policies of government. Lec. W 12; sect. M T W 9, 12, 2:20; Th F S 9, 10. (The lecture will on occasion alternate with the third hour of the section.) Members of the Department. Mr Averitt (*Director*).
- 110b *The Structure and Functioning of Modern Economies.* How the components of an economic system interact, including the role of prices, supply and demand, and competition and monopoly; an introduction to the international economy and the Soviet economy. Lec. W 12; sect. M T W 9, 12, 2:20; Th F S 9, 10. (The lecture will on occasion alternate with the third hour of the section.) Members of the Department. Mr Averitt (*Director*).
- 259a *Development of Western Economic Society: Economic Revolution in the West, 1750-1870.* An introductory study of the creation of industrial society in Britain and its diffusion to Western Europe and the United States. M T 2-3:10. Mr Jones. [History]

ECONOMICS

- 260b *Development of Western Economic Society: Problems of Capitalist Society, 1870 to the Present.* The problems faced by mature industrial capitalism and the economic solutions evolved by Western society. M T 2-3:10. Mr Britt.

B. Economic Theory

- 250b *The Price System.* The theory of price and output determination, the behavior of consumers and producers under various market structures and the welfare implications of various solutions. Prerequisite: 110b. W Th F 2:20-3:10. Mr Costello.
- 253a *Income, Employment, and Growth.* A consideration of aggregative economic theory as a framework for analyzing the determination of the level, and changes in the level, of national output. Prerequisite: 110a. Th 10-10:50, F 10-11:50. Mr Leonard.
- 265a *Theory of Income Distribution.* An examination of the theory and contemporary issues pertaining to the distribution of income and wealth. Prerequisites: 110a and 110b. M T W 9. Mr Britt.
- 270a *History of Economic Thought.* A study of the major economists from Adam Smith through John Maynard Keynes; their contribution to economics; the uses made of their work; the intellectual climate of their time; an appraisal of the intellectual heritage of contemporary economics. W Th F 3:20-4:10. Mr Averitt.
- 280b *Economic Statistics.* Introduction to statistical reasoning and its application to economics. Elementary sampling, statistical inference, correlation, regression, index numbers, time series, and selected applied topics. M T 10-10:50, W 10-11:50. Mr Fox.
- 401b *Graduate Seminar: Contemporary Economic Theory.* Advanced study of current economic theories and methodology. By permission of the instructor. Hours to be arranged. Mr Averitt.

C. The American Economy

- 215a *Social Control of Industry.* Analysis and critique of the structure, conduct, and performance of industrial markets. The nature of public control and regulation of business through the antitrust laws and the regulatory commissions. Prerequisite: 110b. W Th F 2:20-3:10. Mr Costello.

ECONOMICS

- 220a *Labor Problems and Public Policy.* The nature of labor problems in an industrial society. The development of labor organizations, and the impact of the process of collective bargaining on employment conditions. The role of the trade union in a free economy, and evolution of public policy toward labor-management relations. Prerequisite: 110b. M T W 10-10:50, W 11-11:50 at the option of the instructor. Mr McCartney.
- 225b *Monetary and Fiscal Policy.* Monetary and fiscal policies will be considered with respect to their effectiveness in achieving the economic goals of full employment, growth, price stability, and an acceptable balance of payments. Prerequisite: 110a. Th 10-10:50, F 10-11:50. Mr Leonard.
- 228b *American Economic Structure: Contemporary Problems.* Organization of the United States economy; ideological justifications; regional differences; the role of large and small business; the economic impact of government on agriculture, defense industries, and cities. Prerequisite: 110b. Recommended background: 110a. W Th F 3:20-4:10. Mr Averitt.
- [311b *Seminar: Major Economic Issues in American Presidential Campaigns.* Background and nature of the issues, opinions of contemporary economists, and the impact on the economy of subsequent government action.]
- 315a *Seminar: Industrial Organization.* Contemporary and traditional issues in the social control and performance of industrial markets. Prerequisites: 215a or 216b, and 250b or 251a. Th 11-12:50. Mr Costello.
- 320a *Seminar: Problems in Labor Economics.* Study of selected contemporary problems and issues of labor relations and manpower economics in their institutional and theoretical framework. Prerequisites: 220a or 221b, and 250b or 251a. T 4:20-6:10. Mr McCartney.
- 325b *Seminar: Problems in Stabilization and Growth.* Current problems in the United States with emphasis upon the results of monetary and fiscal policies and controversy over their relative effectiveness in achieving the nation's economic objectives. Prerequisites: 225b or 226a, and 250b or 251a. Th 7:30. Mr Leonard.

HISTORY AND SOCIAL SCIENCE 395b. *Interdepartmental Seminar in Economics, Government, History, and Sociology.* Topic for 1966-67: The Negro in America. By permission of the instructor. W 7:30. Mr Leo Weinstein [Government], Mr Elkins [History], Mr Rose [Sociology].

ECONOMICS

D. International and Comparative Economics

- 205b *International Economic Problems.* Introduction to postwar international economic problems, and their historical and theoretical backgrounds. Prerequisites: 110a and 110b. Th 3:20-5:10, F 3:20-4:10.
- 209a *Comparative Economic Systems.* Description, underlying theories, problems, changes, and trends in the economies of the U.S. and U.S.S.R. in recent years. Prerequisites: 110a and 110b, or permission of the instructor. M T W 12-12:50. Mr Olson.
- 211b *Problems of Underdeveloped Countries.* A comparative study of the economies of selected underdeveloped countries in their political and social setting. Prerequisites: 110a and 110b, or permission of the instructor. M T W 12-12:50. Mr Fox.
- 214b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Open to sophomores by permission of the instructor. M T W 9. Mr Mair.
- 285a *Problems of Growth in Advanced Countries.* Study of economic development in advanced societies with special emphasis on Western Europe. The course will focus on the institutions, problems, and policies of the twentieth century. Prerequisites: 110a and 110b, or permission of the instructor. M T W 3:20-4:10, M 4:20-5:10 at the option of the instructor. Mr Britt.
- [305a *Seminar: Topics in International and Comparative Economics.* The seminar is conducted as a workshop project. By permission of the instructor. Th 4:20-6:10.]
- 309b *Seminar: Contemporary Economic Problems in the Soviet Union.* Selected current problems in the economy of the U.S.S.R. By permission of the instructor. M 7:30. Mr Olson.
- [318a *Seminar: Latin American Economics.* The structure and potential for development of selected Latin American economies. Prerequisites: 110a and 110b. Recommended background: a course in Latin America or underdeveloped areas. Mr Averitt.]

ECONOMICS

- 323b *Seminar: Economic Development in Africa South of the Sahara.* Comparative examination and analysis of economic characteristics and development problems of selected African countries. Prerequisites: 110a and 110b, or permission of the instructor. Recommended background: a course in Africa south of the Sahara, or underdeveloped areas. Alternates with 335b. T 4:20-6:10. Mr McCartney.
- [335b *Seminar: Comparative Labor.* Analysis of some issues relating to the labor force, labor markets, and the nature of the labor movements in selected foreign countries, both advanced and underdeveloped. Comparative study of public policies with respect to labor problems. The role of international organizations in the field of labor relations. By permission of the instructor. Alternates with 323b. T 4:20-6:10. Mr McCartney.]
- 340b *Major Economic Issues.* For the Class of 1967 only, required of all senior majors. W 7:30. Members of the Department.
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- 301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had four semester courses in economics above the introductory level.

HONORS COURSES

These courses are designed primarily for honors candidates. Non-honors majors may be admitted if they have *both* the stated prerequisites *and* permission of the instructor.

Economic Theory

- 251a *The Price System.* The theory of price and output determination, the behavior of consumers and producers under various market structures and the welfare implications of various solutions. Prerequisite: 110b. M T W 9. Mr Mair.
- 254b *Income, Employment, and Growth.* A consideration of aggregative economic theory as a framework for analyzing the determination of the level, and changes in the level, of national output. Prerequisite: 110a. M T 11-12:10. Mr Britt.

The American Economy

- 216b *Industrial Organization.* Contemporary analysis of economic performance in industrial markets. The role of public policy in affecting various dimensions of performance. Prerequisite: 251a. Th 11-12:50, F 12-12:50. Mr Costello.

ECONOMICS

- 221b *Labor Problems and Public Policy.* Analysis of the labor force, labor markets, and the economic impact of trade unions. Selected problems in public policy related to the labor market. Prerequisite: 251a. M 3:20-5:10, T 3:20-4:10. Mr McCartney.
- 226a *Monetary and Fiscal Policy.* Monetary and fiscal policies will be considered with respect to their effectiveness in achieving the economic goals of full employment, growth, price stability, and an acceptable balance of payments. Prerequisite: 254b. Th 7:30. Mr Leonard.

International and Comparative Economics

- 206a *International Economics.* Principles of international economics and their application to postwar economic problems. Prerequisite: 251a. Th 11-12:50, F 12-12:50. Mr Leonard.
- 210b *Comparative Economic Systems: Theory and Problems.* Consideration of the polar theoretical economic models, Capitalism and Communism, with primary emphasis on analysis and problems of various in-between models and real systems, e.g., U.S.S.R., Yugoslavia, France. Prerequisites: 251a and 254b, or permission of the instructor. M T 2-3:10. Mr Olson.
- [212a *Economics of Underdeveloped Countries.* The processes and problems of stimulating growth in underdeveloped countries. Prerequisite: 251a. M T 2-3:10. Mr Fox.]

THE MAJOR

Advisers: Mr McCartney, Mr Averitt, Mr Britt, Mr Olson

Basis: 110a and 110b *or*, for students who have received a grade of B or better in either of these courses, one of the following combinations: 110a and 250b *or* 110b and 253a.

Requirements: a minimum of eight semester courses and seminars, of which three must be selected from one of the three fields: Economic Theory, The American Economy, and International-Comparative Economics; two must be selected from one other field in the Department; and three optional courses or seminars must be elected from its offerings (for the Class of 1967: *two* optional courses *and* 340b).

Two examinations: an examination in the field of concentration selected by the student, based on a minimum of three courses in that field; a comprehensive written examination.

ECONOMICS

Fields: Economic Theory.

The American Economy.

International-Comparative Economics.

Area Studies

Majors may concentrate in an interdepartmental area rather than a departmental field, in which case an examination in the given area will replace the written field examination. In consultation with an adviser, a program may be established based on: (a) a minimum of six courses or seminars in the Department, of which three must be selected from the International-Comparative field; and (b) two additional courses or seminars selected from an approved list of offerings in related departments.

Majors may spend the junior year abroad if they meet the College requirements.

HONORS

Director: Mr Costello.

Based on: 110a or 110b *or*, for students who have received a grade of B or better in either of these courses, one of the following combinations: 110a and 250b *or* 110b and 253a.

Requirements: eight semester courses, including the following: 250b or 251a, and 253a or 254b; six additional courses or seminars, of which two must be elected from the offerings designated as honors courses in one field; and a long paper written in the first semester of the senior year, equivalent to one semester course.

Three examinations: a written general examination; a written examination in one of the fields listed under the major, based on two honors courses in that field; and an oral examination which will be a defense of the long paper and related materials and must be taken before the spring recess in the second semester of senior year.

EDUCATION & CHILD STUDY

PROFESSOR:	HELEN EVANGELINE REES, ED.D., Director, Preschool and Elementary School Teacher Preparation
ASSISTANT PROFESSORS:	LAWRENCE A. FINK, ED.D., Director, Secondary School Teacher Preparation, <i>Chairman</i> SEYMOUR WILLIAM ITZKOFF, ED.D.
INSTRUCTOR:	ELSIE HARRIET KOESTER, A.M.
TEACHING FELLOWS:	JANET EXTER, B.A. BARBARA CARROLL FAUSKE, A.B. JANE BENEDICT JACKSON, B.A.
LECTURERS:	JOHN JOSEPH FEENEY, M.ED. ISOBEL REYMES KING, A.M. NELSON R. OHMART, A.B.

Students, irrespective of major, who desire to comply with the varying requirements of different states for certificates to teach in public elementary and secondary schools are urged to consult the appropriate Department Director as early as possible during their college course.

Students planning to major in Education and Child Study are advised to take the introductory course in Field A in the freshman year.

A. Historical and Philosophical Perspectives

- 121a *Foundations of Education.* Historical and philosophical background of modern education. Study of the educational thought of Plato, Augustine, Locke, Rousseau, Dewey, and others. M T W 3:20-4:10. Mr Itzkoff.
- 234b *Theories of Knowledge and the Curriculum.* The structure and purpose of knowledge in relation to concepts of man and the subject matter of education: science, art, the humanities. Approached through historic and contemporary sources. Recommended background: 121a or Philosophy 111a, b. M 3:20-5:10, T 3:20-4:10. Mr Itzkoff.
- 236a *American Education.* Evolution of American educational thought and institutions; the development of American education related to the growth of the nation and the changing social order. M T W 10-10:50. Mr Fink.
- 337b *Seminar in Comparative Education.* An examination of the values of national cultures as exemplified in their educational objectives. Individual research and application to contemporary educational problems in the international context. M T W 12. Mr Itzkoff.

EDUCATION & CHILD STUDY

B. The Educational Process

- 231a *The Child in Modern Society.* The place of the child in society; mental hygiene of early childhood; social and educational agencies concerned with child welfare. Directed observations. Th F 2-3:10. Mrs King.
- 232b *Foundations of Secondary Education.* Characteristics of the secondary school pupil; present functions and organization of secondary schools; curriculum. Directed observation in public and private schools. Sophomores admitted only by permission of the instructor. M T 2-3:10. Mr Fink, Mr Feeney.
- 235a *The Child and Modern Preschool and Elementary Education.* A study of the growth and development of children from early years to adolescence in relation to the educative process; the basic principles of teaching as an introduction to participation in the classroom. Two class hours and directed observations in the laboratory schools. Sophomores admitted only by permission of the instructor. T W 9. Miss Rees.
- 235b A repetition of 235a. T W 12. Miss Rees.
- 239b *Educational Evaluation and Guidance.* Study of the various means of evaluating learning and teaching; principles of guidance as they affect growth and development throughout the school years. A laboratory period will be arranged. W 7:30. Mr Ohmart.
- 342b *The Teaching-Learning Process.* A course in educational psychology dealing with current research in the several aspects of the educative process at all levels, including depth and breadth of knowledge, potentiality, creativity, and values. By permission of the instructor. M 7:30. Miss Rees.
- 347a *Advanced Child Study.* Demonstration of and practice in techniques for the study of children from early childhood through adolescence within the framework of the educative process. By permission of the instructor. M 7:30. Miss Rees.

The following courses offer opportunity for directed classroom teaching.

- [316a *The Teaching of Music.* Theory and practice of music education in the pre-school and elementary grades. Prerequisite: 235a or b. Recommended background: Music 111. M 7:30.]

EDUCATION & CHILD STUDY

- 318a, 318b *The Teaching of History and the Social Studies.* A course for prospective teachers of history and social studies at the secondary level. Classroom procedure and curriculum in secondary school history and related subjects; organization and presentation of subject matter. Two class hours with observation and directed intern teaching. Prerequisite for 318a: 232b or permission of the instructor; for 318b: 318a. M 3:20-5:10. Mr Fink.
- 345 *Preschool and Elementary Education.* A study of the curriculum and the application of the principles of teaching in the modern preschool and elementary school through grade nine. Two class hours and directed classroom teaching participation. Prerequisite: 235a or b taken previously or concurrently, and permission of the instructor. T 4:20-6:10. Miss Rees, Mrs Koester.
- 346a, 346b *Curriculum and Intern Teaching in Secondary Schools.* Two class hours and directed teaching for students for whom no special methods course is available. Prerequisite for 346a: 232b or permission of the instructor; for 346b: 346a. T 4:20-6:10. Mr Itzkoff, Mr Fink.
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301a, 301b Special Studies.

- [340a Seminar for discussion and directed reading, integrating fields A and B.]
- 340b Seminar (for the Class of 1967 only) for discussion and directed reading, integrating fields A and B. Th 4:20. Members of the Department.

Related courses recommended in other Departments.

- 222a *Educational Psychology.* The educational process considered from the point of view of psychology. The application of psychological principles of development, motivation, and learning to contemporary educational problems. Open only to those who have *not* had Psychology 101a. M T W 12. Mrs Musgrave. [Psychology]
- 222b A repetition of 222a for those who have passed 101a. Open to freshmen. W Th F 2:20.
- 223a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Th F S 9. [Psychology]
- 223b A repetition of 223a. Open to freshmen who have passed 101a. Th S 11-11:50, F 12.
- 224b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Th F S 9. [Psychology]

EDUCATION & CHILD STUDY

- 300 *Teachers' Course.* Review of Spanish grammar; discussion of methods; practice teaching. Hours to be arranged. [Hispanic Studies]
- 302a, b *The Teaching of English.* A course for prospective teachers of English in secondary schools. The teaching of composition and literature. Selection and presentation of material. Demonstration and practice. For seniors. By permission of the instructor. M T W 2:20. Mrs Bramwell. [English]
- 305a *Art Education.* Theory and practice of art in the elementary and secondary school. For juniors and seniors by permission of the instructor. Recommended background: Art 160 and Education 235a, b. M 7:30 Mrs Jules. [Art]
- 306b *Art Education.* Continuation of 305a. By permission of the instructor. M 7:30-10. Mrs Jules. [Art]
- 310a *Teachers' Course.* Problems and methods of modern language teaching in the elementary and secondary schools. Practice teaching at these levels in the Northampton schools. Permission of the instructor. W 7:30. Mr Buteau. [French]
- 310b *Seminar in Health Education.* Problems in the dissemination of accurate public health information to the individual and to the community. Th 7:30. Miss Robinton. [The Biological Sciences: Microbiology]
- 311a, b *Teachers' Course.* A one- or two-semester course for prospective teachers of secondary school physics. Mr Rice. [Physics]
- 331b *Speech for the Classroom Teacher.* The development of speech in the child, problems of defective speech, speech arts in the classroom, and the speech of the teacher. Voice recordings. Th F 2-3:10. Miss Fitch. [Theatre and Speech]
- 332a *Oral Interpretation of Children's Literature.* A critical study of children's literature. The techniques of its oral interpretation. Practical experience in story-telling, reading aloud, and other forms of classroom presentation. Individual voice and speech practice. Th F 2-3:10.
- 344a *Child Psychology* (seminar). Selected problems, reports, and discussion. Prerequisite: Psychology 223a or b. Th 7:30. [Psychology]

EDUCATION & CHILD STUDY

GRADUATE

Advisers of Graduate Study: Miss Rees and Mr Fink.

400a, b Thesis. Members of the Department.

401a, b Advanced Studies. Open to seniors by permission of the Department. Members of the Department.

410a *Current Problems in Child and Adolescent Development.* Th 3:20-5:10. Mrs Koester.

452a *Problems of American Education.* Required of all candidates for the M.A., the Ed.M., and the M.A.T. degrees. W 7:30. Mr Itzkoff.

454b *Current Problems of Preschool and Elementary Education.* Th 3:20-5:10. Mrs Koester.

455a, b *Secondary Education.* T 4:20-6:10. Mr Itzkoff, Mr Fink.

[456b *Higher Education.*]

459a, b *Intern Teaching.* Members of the Department.

THE MAJOR

Students majoring in the Department may prepare for preschool or elementary school teaching or for graduate work leading to an advanced degree. Students who intend to teach in secondary school are advised to major in the field in which they expect to teach and to take basic courses in education.

Adviser: Miss Rees.

Basis: 121a.

Requirements: eight semester courses selected in consultation with the major adviser.

Usually they will consist of two courses in Field A in addition to the basis; 235a or b and 345 in Field B; and two additional courses at an advanced level chosen from

Department offerings or from the list of related courses; and Education 340a.

Two examinations: one in each of the two departmental fields.

Fields: A. Historical and Philosophical Perspectives.

B. The Educational Process.

HONORS

Director: Mr Fink.

Basis: 121a.

Requirements: those listed in the major; a long paper, the equivalent of one semester course, in the senior year.

Three examinations: one in each of the two departmental fields; a third in a more specialized field selected in consultation with the director.

ENGLISH LANGUAGE & LITERATURE

PROFESSORS:	HELEN WHITCOMB RANDALL, PH.D. DANIEL AARON, PH.D. ALFRED YOUNG FISHER, DOCTEUR DE L'UNIVERSITÉ DE DIJON †ELEANOR TERRY LINCOLN, PH.D. **ROBERT TORSTEN PETERSSON, PH.D. KENNETH AMOR CONNELLY, JR., PH.D. VERNON JUDSON HARWARD, JR., PH.D., <i>Chairman</i>
ELIZABETH DREW	
VISITING PROFESSOR:	CESAR LOMBARDI BARBER, A.B.
VISITING PROFESSOR:	PAUL PICKREL, PH.D.
WRITERS IN RESIDENCE:	VICTOR SAWDON PRITCHETT ¹P. L. TRAVERS
ASSOCIATE PROFESSORS:	RICHARD BENJAMIN YOUNG, PH.D. FRANK H. ELLIS, PH.D. FRANCIS E. X. MURPHY, PH.D. WILLIAM HOOVER VAN VORIS, PH.D.
ASSISTANT PROFESSORS:	ELIZABETH GALLAHER VON KLEMPERER, PH.D. JOAN MAXWELL BRAMWELL, M.A. CARL ROBINSON SONN, LL.B., A.M. HAROLD LAWRENCE SKULSKY, PH.D. MARY JEAN CARRUTHERS, PH.D. †DAVID CAVITCH, PH.D. MARGARET L. SHOOK, PH.D.
INSTRUCTORS:	MAURIANNE SCHIFREEN ADAMS, A.B. JANICE L. WILSON, M.A. MARK L. KRUPNICK, M.A. ¹EVALYNN JOYCE MONSKY, A.M. ¹M. BRETT AVERITT, PH.D.
LECTURERS:	²ROBERT ELY BAGG, PH.D. RON D. K. BANERJEE, M.A. ¹MOYRA JEAN BUCHAN, M.A. RONALD HINDMARSH, B.A. THOMAS ARTHUR MICHAEL IRWIN, M.A., B.LITT. FRANCIS NOEL LEES, B.A. EDNA REES WILLIAMS, PH.D.

ENGLISH LANGUAGE & LITERATURE

The courses that may be taken by the Class of 1967 to fulfill the distribution requirement in Group A are 207, 208, 209.

Freshmen who have attained an Advanced Placement score of 4 or 5 may elect any of the intermediate courses except those which specifically exclude freshmen. Sophomores may elect any introductory or intermediate course from which they are not specifically excluded.

Students planning to major in English are encouraged to take allied courses in classics, modern European literature, history, philosophy, religion, and art.

- 111a *Introduction to Literary Study.* Expository and critical writing in relation to the study of literary texts. M T W 9; W Th F 3:20-4:10; Th F S 9; Th 11-12:50, F 12; Th 11, F 12, S 11. Mr Ellis (*Director*).
- 111b A repetition of 111a. M T W 9; Th F S 9; Th 10, F 10-11:50, S 10 at the option of the instructor.
- 112a *Introduction to College English for Foreign Students.* Th 3:20-5:10. Mrs Bramwell.

A. Language and Literature

- 114a *Fiction A: The Structure of Fiction.* A study of the elements of the short story, novella, and novel, including works by Melville, Hawthorne, James, Conrad, and Faulkner. M T W 9, 10, 12, 2:20, 3:20-4:10; Th 10, F 10-11:50. Miss Shook (*Director*).
- 114b *Fiction B: Forms of the Novel.* A study of novels by Fielding, Austen, George Eliot, Hardy, Lawrence, and others. 114a is *not* a prerequisite. M T W 12, 2:20, 3:20-4:10; Th F S 9; Th 10, F 10-11:50; Th 11-12:50, F 12. Mrs Bramwell (*Director*).
- 115a *Drama A: Tragedy.* Plays by Marlowe, Shakespeare, Webster, T. S. Eliot, and others, with emphasis on tragic themes and techniques. M T W 9, 12, 3:20-4:10; Th F 8:40, 2-3:10; Th S 11-12:10. Mr Petersson (*Director*).
- 115b *Drama B: Comedy.* Plays by Jonson, Shakespeare, Shaw, Beckett, and others, with emphasis on comic themes and techniques. 115a is *not* a prerequisite. M T W 9, 3:20-4:10; M T 2-3:10; Th 10, F 10-11:50. Mr Sonn (*Director*).
- 116a *Poetry A: The Structure of Poetry.* A critical study of its elements, with emphasis on the lyric from the Renaissance to the present. Th F 8:40, S 8:40 at the option of the instructor; Th F S 10. Mr Murphy (*Director*).

ENGLISH LANGUAGE & LITERATURE

- 116b *Poetry B: Forms of Poetry.* Narrative, epic, and satiric poems from Spenser to T. S. Eliot. 116a is *not* a prerequisite. M T W 10; Th F 2-3:10. Miss Randall (*Director*).
- 201a *The Grounds of Literary Judgment.* Various approaches to the study of literature. Th 10, F 10-11:50. Mr Pickrel.
- 201b *The Grounds of Literary Judgment.* A repetition of 201a. T 10, W 10-11:50; Th 10, F 10-11:50. Mr Pickrel, Mr Ellis.
- 207 *The Development of English Literature.* A study of its traditions, conventions, and themes. The course is conducted by lecture and tutorial instruction. M T W 10, W 11 and T 4:20-6:10 at the option of the instructor. Mr Harward, Mr Lees, first semester; Mrs von Klemperer, Mr Sonn, second semester. Mrs von Klemperer (*Director*).
- 208 *The Development of American Literature to 1900.* M T W 9. Mr Aaron.
- 209a,b *English Literature of the Nineteenth and Twentieth Centuries.* M T W 12. Miss Shook, Miss Randall.
- 210a *The English Language.* Main historical developments of language, style, and meter, from the beginning to 1400, illustrated by representative readings from each period. Th 3:20-4:10, F 3:20-5:10. Miss Carruthers.
- [210b *The English Language.* Continuation of 210a from 1400 to the present. Recommended background 210a, 214a or b. Miss Carruthers.]
- 211a *Old English.* A survey of language and literature before 1066, with reading of prose and poetry, both in the original and in translation. W 3:20-4:10, Th 3:20-5:10. Miss Williams.
- 211b *Old English.* A study of Beowulf. Prerequisite: 211a. W 3:20-4:10, Th 3:20-5:10. Miss Williams.
- 214a *Chaucer.* A study of his art and of his social and literary background. Emphasis on the *Canterbury Tales*. M T W 12, T 11 at the option of the instructor; Th 10, F 10-11:50. Mr Harward, Miss Williams, Miss Carruthers.
- 214b *Chaucer.* A repetition of 214a. M T W 10, W 11 at the option of the instructor. Mr Harward.
- 215b *Medieval Literature.* A study of Chaucer's *Troilus and Criseyde* and of his minor poems; selected reading from other works of the period, including epics, courtly romances, and allegories. Prerequisite: 214a or b. M T 2, W 2 at the option of the instructor. Mr Harward.

ENGLISH LANGUAGE & LITERATURE

- 217b *Sixteenth-Century Literature*. Prose and poetry from Wyatt through Shakespeare; a study of ideas and forms characteristic of the Renaissance. M T 11-12:30. Mr Skulsky.
- 218a *Shakespeare*. Romeo and Juliet, As You Like It, Twelfth Night, Richard II, Henry IV Parts 1 and 2, Henry V, Hamlet. *Not open to students who have taken 25b (Spring, 1965).* M T W 9, 10; M T 11, W 12; M T W 2-2:50. Mr Young (*Director*).
- 218b *Shakespeare*. Measure for Measure, King Lear, Macbeth, Troilus and Cressida, Coriolanus, Anthony and Cleopatra, The Winter's Tale, The Tempest. M T W 9, 10; M T W 2-2:50. Mr Young (*Director*).
- 220a *Milton*. The major and minor poems with attention to current problems in interpretation and criticism. Th 10, F 10-11:50, S 10 at the option of the instructor. Mr Petersson, Mr Sonn.
- 221b *Seventeenth-Century Poetry from Donne to Dryden*. Discussion of the Petrarchan convention, metaphysical imagery, Platonism, Christian-Humanism, and related topics. Th F 8:40, S 8:40 at the option of the instructor. Mr Murphy.
- 222b *Restoration and Eighteenth-Century Drama, 1660-1800*. A close study of the backgrounds, modes of production, and texts of significant plays. M T W 2:20. Mr Van Voris.
- 223a *The Augustan Age*. Discussion of the major figures: Dryden, Swift, Pope; required paper on Defoe, Addison, or Gay. Recommended background: 220a. Th 3:20-4:10, F 3:20-5:10. Mr Ellis.
- 223b *The Age of Johnson*. Discussion of the major figures: Johnson, Goldsmith, and Boswell; required paper on one lesser figure. Th 3:20-4:10, F 3:20-5:10. Mr Ellis.
- 224a *The English Novel*. Defoe to Jane Austen. Th F 2-3:10. Mr Pickrel.
- 224b *The English Novel*. Dickens to E. M. Forster. Th F 2-3:10. Mr Pickrel.
- 227a *The Romantic Poets*. Discussion of Wordsworth, Coleridge, Blake, and Keats; independent reading of Shelley or Byron. Th F S 9. Miss Randall.
- 227b *Victorian Prose and Poetry*. Theme and technique in the prose of Carlyle, Mill, Newman, Arnold, and Ruskin, and the poetry of Tennyson, Browning, Arnold, the Rossettis, Swinburne, and Hopkins. M T W 12. Mrs von Klemperer.

ENGLISH LANGUAGE & LITERATURE

- 230b *Yeats and Joyce*. Open only to juniors and seniors, or by permission of the instructor. M T W 3:20-4:10. Mr Connelly.
- 231b *Modern Poetry*. Characteristic themes, imagery, and forms of modern British and American poetry. M T W 10. Mr Lees.
- [234a *Transcendentalism in American Literature*. Emerson, Thoreau, and Whitman.]
- [234b *Hawthorne, Poe, and Melville*.]
- 235a *American Literature from the Civil War to the End of the Nineteenth Century*. M T W 10. Mr Krupnick.
- 235b *American Literature from the Beginning of the Twentieth Century to the Present*. M T W 10. Mr Krupnick.
- 240b *Tragedy*. Tragic forms, themes, and theories. Th F S 10, F 11 at the option of the instructor. Mr Barber.
- 241a *Idea and Form in Twentieth-Century Fiction*. Open only to juniors and seniors, or by permission of the instructor. M T W 3:20-4:10. Mr Connelly.
- 301, 301a, 301b Special Studies. Independent study for senior majors. By permission of the Department.
- 302a, b *The Teaching of English*. A course for prospective teachers of English in secondary schools. The teaching of composition and literature. Selection and presentation of material. Demonstration and practice. For seniors. By permission of the instructor. M T W 2:20. Mrs Bramwell.

Undergraduate Seminars

Open to seniors and juniors by permission of the instructor.

- 310b *Medieval English Drama and Poetry*. A study of origins, themes, and literary forms. Recommended background: 214a or b. Th 7:30. Miss Carruthers.
- 311b *Spenser and Jonson*. Studies of selected works as representative of dominant and divergent tendencies of English Renaissance literature. M 7:30. Mr Young.

ENGLISH LANGUAGE & LITERATURE

- 313a *English Drama from 1560 to 1642*. Shakespeare's predecessors and contemporaries. W 7:30. Mr Fisher.
- [314b *Seventeenth-Century Studies*. Baroque and Classical: questions of style and form in literature and other arts. Mr Petersson.]
- 316a *Satire*. Major satire in prose, verse, and drama, with emphasis on selected writers of the Augustan era. M 7:30. Mr Van Voris.
- 317b *Eighteenth-Century Poetry*. Diction, structure, and the imagery of mind and nature in Pope, Thomson, Wordsworth, and others; the relation of such writers as Bacon, Hobbes, and Locke to the poetry of the period. W 7:30. Mr Sonn.
- 318a *Preromanticism*. Romantic tendencies in the eighteenth century: sentiment and sensibility; the rediscovery of nature; primitivism and progress; varieties of liberalism; represented in the works of such writers as Steele, Thomson, Gray, Collins, Sterne, Cowper, Burns, Blake, and Paine. Recommended background: 223b. Th 7:30. Mr Ellis.
- [320b *Nineteenth-Century Studies*. The literature of social criticism, with emphasis on non-fictional prose. Mr Pickrel.]
- 322b *James Joyce*. An intensive study of *Ulysses*. W 7:30. Mr Fisher.
- 325a *American Poetry from the Seventeenth Century to the Present*. Critical and historical interpretation of the poetry of Taylor, Emerson, Whitman, Dickinson, Melville, Poe, Robinson, and Frost. Th 11-12:50. Mr Murphy.
- 326a *Themes in Nineteenth-Century American Literature*: The Civil War and the American Writer. M 7:30. Mr Aaron.
- [327b *Themes in Twentieth-Century American Literature*.]
- 329b *A Major British or American Poet*. For 1966-67: Coleridge as poet and critic. Th 7:30. Mrs Adams.
- [332b *Ballad*. The ballad as an art form: its types, origins, intrinsic values, literary adaptations, and discography. Mr Ellis.]

ENGLISH LANGUAGE & LITERATURE

- [334a *The Heroic and Pastoral Traditions*. Classical, religious, philosophical, and political adaptations of the conventions, and their development to the present day in poetry, drama, and fiction. Miss Lincoln.]
- 335a *Literary Criticism from Plato to Dryden*. A study of the basic and recurrent problems of literary theory and practice, as formulated in classical, medieval, and Renaissance contexts. M 7:30. Mr Young.
- [335b *Modern Literary Criticism*. The mimetic, expressive, and objective theories of modern critics, with emphasis on Coleridge, I. A. Richards, and T. S. Eliot. Miss Randall.]
- 336a *The Comic*. Theories of humor; comedy of situation, character, language; great comic figures. Readings in comic verse, prose, and drama, drawn primarily from English literature. M 7:30. Mrs von Klemperer.
- 338b *Religious Poetry*. English devotional poems with particular emphasis on Herbert, Donne, Hopkins, and Eliot. Th 7:30. Mrs Bramwell.

Graduate Seminars

- [406b *Shakespeare*.]
- [411b *Advanced Studies in English or American Literature*. Open by permission to senior majors with appropriate prerequisites.]

B. Courses in Writing

Only one course in English composition may be taken in any one semester except by permission of the chairman. Second semester courses are open to students who have not taken the corresponding course in the first semester.

- 260a, 260b *The Writing of Poetry*. Th 7:30. Mr Banerjee, Mr Bagg.
- 261a, 261b *The Writing of Fiction*. Th F 3:20-4:10, F 4:20-5:10 at the option of the instructor. Mr Irwin.
- [360a, 360b *Seminar in Poetry Writing*.]
- [361a] 361b *Seminar in Fiction Writing*. W 7:30. Mr Pritchett.
- 362a *Seminar in Essay Writing*. T 4:20. Mr Pritchett.

ENGLISH LANGUAGE & LITERATURE

THE MAJOR

Advisers: Mr Fisher, Mr Petersson, Mr Connelly, Mr Young, Mr Murphy, Mrs von Klemperer, Mrs Bramwell, Mr Sonn, Miss Carruthers, Miss Shook, Mrs Adams.

Basis: two semester courses *or* one year course chosen from the following: 114a, 114b, 115a, 115b, 116a, 116b, 207, General Literature 291.

Requirements: Ten semester courses (or the equivalent), including the following: 214a or b and 218a or b, six additional semester courses in English, and two semester courses above the introductory level, in English or other literatures. One semester course in writing may be counted within the minimum requirements for the major. The Department strongly recommends that students in the major elect at least one seminar a year.

Two Examinations: Each student is expected to pass two examinations, one in an historical field, the other on a literary topic. The two examinations may be taken in either order. They may not, however, be taken in the same semester, and the second may not be taken later than the middle of the senior year.

Field Examinations. Two semester courses and directed reading should in each case provide adequate preparation.

- A. Medieval Literature to 1500 (excluding the material of the required course in Chaucer).
- B. Renaissance and Seventeenth Century, 1500-1674 (excluding the materials of both courses in Shakespeare).
- C. Restoration and Eighteenth Century, 1660-1800 (excluding Milton).
- D. Nineteenth Century and Modern (including American literature).

Topical Examinations. The scope of each examination will be defined by a list of literary texts and critical works.

- A. A selected topic (e.g., Allegory, The Heroic) in Poetry and Drama mainly before 1700. (To be taken by students electing Field Examination C or D.)
- B. A selected topic (e.g., Varieties of Realistic Narrative, The Autobiographical Mode) in Poetry and Prose Fiction mainly since 1700. (To be taken by students electing Field Examination A or B.)

HONORS

Directors: For the Class of 1967, Mr Ellis; for the Classes of 1968 and 1969, Miss Randall.

ENGLISH LANGUAGE & LITERATURE

Basis: Same as that for the major.

Requirements: Students in Honors must fulfill the general requirements of the major. They must take at least one unit in each semester of the junior year, and at least one unit in the senior year. In the first semester of the senior year, they will present a long paper to count for one semester course beyond the ten courses in English required for the major.

Three Examinations: The first is a field examination in an historical period which may not be taken later than the middle of the senior year. The second is on major figures. The third, on general topics, will include critical analysis of a text.

Units

First semester

Milton. (Double credit) Th 7:30. Mr Petersson.

[*The Augustans. (Double credit)*]

English Novelists. (Double credit) T 4:20. Mr Pickrel.

Romantic Poets. (Double credit) Th 4:20. Miss Shook.

Modern Literature. (Double credit) T 4:20. Mr Connelly.

Second semester

Shakespeare. (Double credit) M 7:30. Mr Fisher.

English Novelists. (Double credit) Th 7:30. Mr Irwin.

Blake. Th 4:20. Miss Randall.

American Literature. (Double credit) Th 11. Mr Murphy.

Modern Literature. (Double credit) T 4:20. Mr Connelly.

FRENCH LANGUAGE & LITERATURE

PROFESSORS:	†JEAN COLLIGNON, AGRÉGÉ DE L'UNIVERSITÉ JEAN LAMBERT, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES
ASSOCIATE PROFESSORS:	**ANNE GASOOL, A.M. JOSEPHINE LOUISE OTT, PH.D., <i>Chairman</i> ANDRÉE DEMAY, AGRÉGÉE DE L'UNIVERSITÉ
ASSISTANT PROFESSORS:	MARIE-ROSE CARRÉ, DOCTEUR DE L'UNIVERSITÉ DE PARIS §PATRICIA WEED, PH.D. *MARIE-JOSÉ MADELEINE DELAGE, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES JUDITH KAY ADAMS, PH.D. ANTOINETTE PELLETIER, AGRÉGÉE DE L'UNIVERSITÉ BLANDINE McLAUGHLIN, DOCTEUR DE L'UNIVERSITÉ DE PARIS
INSTRUCTORS:	†MARJORIE ANN FITZPATRICK, A.M. LOUIS EUGENE AULD, M.A. MICHELINE FORT, LIC. ÈS L., CERTIFICAT D'APTITUDE AU PROFESSORAT DE L'ENSEIGNEMENT SECONDAIRE *LAWRENCE ALEXANDER JOSEPH, A.M. THEODORE ANTHONY PERRY, PH.D. RICHARD ALAN SMERNOFF, A.M. JACQUELINE MORTON, A.M. OLGA LEHOVICH, A.M.
LECTURERS:	JOHN BUTEAU, A.M. LUCILE MARTINEAU, A.M., M.S.W. ROBERT PIGNARRE, AGRÉGÉ DE L'UNIVERSITÉ

For the Class of 1967, 226 will fulfill both the foreign language requirement and the distribution requirement in Group A. In addition, any advanced course in French literature, except 312a and 323a, may be taken to fulfill this requirement.

For classes subsequent to 1967, the language requirement for students who have not attained exemption through the departmental test will be fulfilled by 111b, 112, 213, 216, 222a and b, 226, or 227.

All classes and examinations in the Department except 312a are in French.

Language courses may require work in the Language Laboratory.

Students planning to spend their junior year in Paris as French majors are advised to take French 226 before their junior year.

FRENCH LANGUAGE & LITERATURE

Students planning to spend their junior year in Paris are urged to take History 103a and 104b before their junior year.

In sectioned courses, the principal times of meeting are indicated but the instructor may elect to use additional hours in the time block.

A. Language

- 111D *Accelerated Beginning Course.* Not open to students presenting entrance units in French except by permission of the Director. (*Three semesters' credit.*) Lec. Th 5:20; sect. M T W Th F 10, 12. Miss Demay (*Director*). (L)
- 112 *Elementary Course.* Prerequisite: two entrance units in French. Lec. Th 5:20; sect. M T W 9, 10. Th F S 9, 10. Members of the Department. (L)
- 213 *Reading, Grammar, and Composition.* Prerequisite: three entrance units in French or 112. Lec. Th 5:20; sect. M T W 9; M T W 10 and, at the option of the instructor, W 11; Th F S 9; Th F S 10 and, at the option of the instructor, F 11. Members of the Department. (L)
- 222a, 222b *Composition and Grammatical Analysis.* Study of modern texts from the point of view of language. Prerequisite: four entrance units in French, 213 or 216. Prerequisite for 222b: 222a or permission of the chairman. M T W 9, 10; M T 11-11:50 and, at the option of the instructor, T or W 12; M T W 2; Th F S 9; Th F S 10 and, at the option of the instructor, F 11; Th 3:20-4:10, F 3:20-5:10. Members of the Department. (L)
- 223b *Composition and Grammatical Analysis.* A repetition of 222a. Prerequisite: four entrance units in French, 213, or 216. M T W 10 and, at the option of the instructor, W 11.
- [224a *Theoretical and Practical Phonetics.* Exercises in hearing, pronunciation, and phonetic dictation. Open to freshmen. Two class hours. *One-quarter course credit.*]
- 310a *Teachers' Course.* Problems and methods of modern language teaching in the elementary and secondary schools. Practice teaching at these levels in the Northampton schools. Permission of the instructor. W 7:30. Mr Buteau.
- 310b A continuation of 310a. Prerequisite: 310a, or by permission of the instructor. W 7:30. Mr Buteau.

FRENCH LANGUAGE & LITERATURE

- 331a, 331b *Course in Composition*. Prerequisite: 222a and b, or by permission of the instructor. Prerequisite for 331b: 331a. M T W 12 and, at the option of the instructor. T 11-11:50. Miss Gasool, Miss Demay.
- 333b *Discussion and Debate*. Limited to twelve students. By permission of the instructor. Open to sophomores. Two class hours. *One-quarter course credit*, Th 4:20-6:10.

B. Literature

Unless otherwise stated the prerequisite for advanced courses is 226.

- 216 *Introduction to French Literature*. Choice of representative texts from the Middle Ages to the present. Literary, historical and cultural background. Prerequisite: three entrance units in French, 111D, or 112. Lec. Th 5:20; sect. M T W 9; M T W 10; M T 11-11:50; M T W 2; W Th F 2; Th F S 9; Th F S 10; Th 11-11:50, F 12-12:50. Members of the Department. (L)
- 226 *Masterpieces of French Literature of the Seventeenth Century*. Representative authors and literary movements of the seventeenth century. Prose, poetry, theatre. Prerequisite: four entrance units in French, 213, 216, or by permission. M T W 9, 10; M T 11-11:50 and, at the option of the instructor, T or W 12; M T W 2; M T W 3:20-4:10; Th F S 9, 10; W Th F 2; Th 11-11:50, F 12 and, at the option of the instructor, Th 12 or S 11; Th 3:20-4:10, F 3:20-5:10. Members of the Department. (L)
- 227 *Masterpieces of French Literature of the Seventeenth Century*. A program similar to that of 226. For a limited number of students with a superior preparation in French. Prerequisite: four entrance units in French, 213, 216, or by permission of the instructor. M T W 12 and, at the option of the instructor, T 11. Mrs Carré. (L)
- 301, 301a, 301b Special Studies in language or literature. By permission of the Department for senior majors who have had four semester courses above the introductory level in French.
- [308b *Life and Works of Molière*. Open to sophomores by permission of the instructor. W Th F 2.]
- 311a *Preromanticism and Romanticism*. Open to sophomores. M T W 10; M T W 3:20-4:10; Th F S 10. Miss Ott, Miss Pelletier, Miss Demay.

FRENCH LANGUAGE & LITERATURE

- 311b *French Novel of the Nineteenth Century.* Open to sophomores. Prerequisite: 311a, or by permission of the instructor. M T W 10, Th F S 10. Miss Ott, Miss Pelletier.
- [312a *French-Canadian Civilization from 1763 to the Present.* Conducted in English. Recommended background, a reading knowledge of French. Open to sophomores.]
- 313b *French Poetry of the Second Half of the Nineteenth Century.* Open to sophomores. Prerequisite: 311a, or by permission of the instructor. Th 3:20-4:10, F 3:20-5:10 and, at the option of the instructor, W 3:20 or Th 4:20-5:10.
- 314a *French Literature of the Eighteenth Century.* The novel and the theatre. Open to sophomores. M T W 9. Mr Lambert.
- 314b *French Literature of the Eighteenth Century.* The Enlightenment and the "Philosophes." Open to sophomores. Th F 2-3:10. Mr Pignarre.
- [315b *French Literature of the Middle Ages.* Open to sophomores.]
- 316b *French Literature of the Renaissance.* Open to sophomores. M T 11-11:50 and, at the option of the instructor, T or W 12. Miss Delage.
- 318a *Contemporary French Drama.* Recommended background: 311a and b. Th 11-11:50, F 12 and, at the option of the instructor, Th 12 or S 11. Mr Pignarre.
- 318b *Contemporary French Novel.* Recommended background: 311a and b. M T W 2. Mr Lambert.
- 323a *Modern France.* Social and cultural trends. M T W 2. Mrs Martineau.
- 340b *Directed Readings for Coordination and Review.* This course prepares majors in the Department for the general examination. Th 4:20-6:10. Mr Pignarre.
- [346b *Modern French Poetry.* For seniors by permission of the instructor.]

C. Seminars

- 342b *Seminar in Stylistics.* Compositions, translations from the English, analyses of various oral and written French styles. Prerequisite: 331a. T 4:20-6:10. Mr Lambert.

FRENCH LANGUAGE & LITERATURE

345a [345b] *Modern French Thought*. A study of the main currents of French thought from the Renaissance to the present. For 1966-67: Montaigne, Descartes, Pascal. Th 7:30. Mr Pignarre.

[347a *Studies in Eighteenth-Century Literature*.]

348a *Studies in Nineteenth-Century Literature*. For 1966-67: Balzac. M 4:20-6:10. Mr Lambert.

[349b *Studies in Twentieth-Century French Literature*.]

D. Graduate

450, 450a, 450b Research and Thesis. *May be taken for double credit.*

451, 451a, 451b Advanced studies arranged in consultation with the Department.

[453a *Corneille*.]

[454b *French Classics, 1660-1700*.]

[455b *The Evolution of the Idea of Progress and Its Consequences in Literature*: "La Querelle des Anciens et des Modernes." T 4:20-6:10. Mrs Carré.]

456b *Surrealism (seminar)*. M 3:20-5:10. Mrs Carré.

Adviser of graduate study: Miss Adams.

THE MAJOR

For the Class of 1967, Miss Demay; for the Class of 1968, Mrs Carré (first semester), Miss Delage (second semester); for the Class of 1969, Miss Ott.

Based on 226; 222a and b are strongly recommended as an additional basis.

Requirements: Ten semester courses, including the following: 311a, b; 331a, 331b or, by permission of the instructor, 342b; three other semester courses of advanced level; two semester courses in European history, preferably French, of intermediate or advanced level; and 340b. (Majors spending their junior year in Paris will normally meet certain of these requirements during that year. A course equivalent to 331a and 331b is offered every year in Paris, as is one replacing 311a and 311b. Intermediate or advanced courses in history are also available.) Majors are strongly advised to take, in addition, two semester courses in Latin

FRENCH LANGUAGE & LITERATURE

(especially if no entrance units in the language are presented); and two semesters in the literature of another modern language.

Two examinations: One in one of the fields listed below, and a general examination based on at least two periods of French literature (other than that of the student's field, if her field examination is in a period rather than a genre). The general examination is composed of an oral "explication de texte" (20 minutes plus time for preparation), and a written examination.

Fields: The Middle Ages and the Sixteenth Century

The Seventeenth Century

1700-1848

1848 to the present

The Novel

Poetry

The Theatre

HONORS

Director: Miss Demay.

Requirements: Those of the major, including at least one seminar; a thesis written in the first semester, normally equivalent to one semester course.

Three examinations: a general examination in French literature; an examination in one of the fields of the major; a language examination composed of (a) translation from English into French, translation from French into English, and (b) an oral "explication de texte" (20 minutes, plus time for preparation).

GEOLOGY & GEOGRAPHY

PROFESSOR:	CAROLINE HEMINWAY KIERSTEAD, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ROBERT FRANK COLLINS, A.M. MARSHALL SCHALK, PH.D. HELEN STOBBE, PH.D.
ASSISTANT PROFESSOR:	H. ROBERT BURGER, III, PH.D.

111a and 211b will fulfill the science distribution requirement for members of the class of 1967. Courses which may be used by classes subsequent to 1967 to fulfill the science requirement are 111a or b, 211b, or any two laboratory courses for which the student has the prerequisites.

Special placement in geology courses is possible for students who pass a qualifying examination given by the Department of Geology or have received grades of 4 or 5 on the Advanced Placement examination.

Course descriptions include the letter of the field or fields in which a course falls if it is acceptable for concentration in a departmental field.

- 111a *General Physical Geology*. Forces of nature now modifying the materials and structure of the earth. Field trips. Two lectures, one demonstration and one two and one-half hour laboratory. Lec. Th 10, F 10-11:50; lab. M T Th F 2. Members of the Department.
- 111b A repetition of 111a. Lec. Th 10, F 10-11:50; lab. T 2. Mr Schalk.
- 211b *Historical Geology* (formerly second semester of Geology 11). The sequence of events which has occurred in the history of the earth as shown in and deduced from the record of rocks and fossils in the earth's crust. Field trips. Two lectures, one demonstration and one two and one-half hour laboratory. Prerequisite: 111a or 111b. Lec. Th 10, F 10-11:50; lab. M Th F 2. Members of the Department.
- 221a *Mineralogy*. General principles: study of the more important rock-forming, economic, and gem minerals. Prerequisite: 111a (or 111b) or entrance units in Chemistry, or Chemistry 111a. Lec. M T 11-11:50, W 12 at the option of the instructor; lab. M 2-5. Mr Burger. (A)

GEOLOGY & GEOGRAPHY

- 231a *Introductory Paleontology and Paleoecology.* A study of the more common groups of larger invertebrates, their paleoecology and stratigraphic importance. Prerequisite: 211b; open without this prerequisite to Zoology majors, by permission of the instructor. Lec. Th 11-12:50, F 12; lab. Th 2-5. Mrs Kierstead. (B)
- 241a *Principles of Cartographic Drafting, Editing, Reproduction.* Practice in map reading, compilation, and simple map drafting. (This course does not fulfill the science requirement.) Lec. Th 11-12:50, F 12-12:50; lab., four hours to be arranged. Mr Collins. (C, G)
- 242b *Geologic and Geographic Illustration.* Charts, graphs, block diagrams, sections. Drawing for reproduction. (This course does not fulfill the science requirement.) Prerequisite: 211b. Lec. Th 11-12:50, F 12-12:50; lab., four hours to be arranged. Mr Collins. (C, G)
- 251a *Introductory Meteorology.* The weather elements; their observation; air mass analysis; short-term and aeronautical forecasting; climatology. Two lectures and one demonstration. Mr Schalk. (G)
- [252b *Geography of North America.* Regional characteristics of North America exclusive of Mexico. Mrs Kierstead. (G)]
- 301a,b *Advanced Work or Special Problems in Geology or Geography.* By permission of the Department. Members of the Department. (A, B, C, G)
- 321b *Petrology.* Interrelation of the main rock types, their origin, structure, mineral composition, occurrence and economic importance. Field and petrographic microscope methods of identification. Prerequisite: 221a. Open to sophomores. Lec. and dis. M T 11-11:50, W 12 at the option of the instructor; lab. M 2-5. Mr Burger. (A)
- 324a,b *Economic Geology.* Lectures and laboratory study of geological products of commercial value. Prerequisite: 211b and 221a. Open to sophomores by permission of the Department. Given in alternate years. Lec. M T 11, lab. three hours to be arranged. Miss Stobbe. (A, G)
- 325b *Geology of Petroleum and Natural Gas.* Their origin, occurrence, and distribution; application of geological principles to their finding and exploitation. Prerequisite: 211b (332b and 341a recommended). Open to sophomores by permission of the Department. M T W 9. Mr Schalk. (A, G)

GEOLOGY & GEOGRAPHY

- 331b *Paleontology and Palaeoecology.* A continuation of 231a with emphasis on fossil groups not covered in 231a; special problems; field trip of two or more days. Prerequisite: 231a. Open to sophomores. Lec. Th 11-12:50, F 12; lab. Th 2-5. Mrs Kierstead. (B)
- [332b *Stratigraphy and Sedimentation.* Stratigraphic methods and techniques; sedimentary rocks and their interpretation. Prerequisite: 211b. Open to juniors and seniors only. Alternates with 334b. Lec. M T W 10, W 11 at the option of the instructor; lab. W 2-4. Mrs Kierstead. (B)]
- 334b *Regional Geology of North America.* The geologic framework of North America; a stratigraphic and structural study of selected regions of the continent. Prerequisite: 211b. Open to sophomores by permission of the instructor. Alternates with 332b. Lec. M T W 10, W 11 at the option of the instructor; lab. W 2-4. Mrs Kierstead. (B, C)
- 340b Senior Review Essay. For seniors majoring in geology or geography. (For the Class of 1967 only.) Members of the Department.
- 341a *Structural Geology.* The study and interpretation of rock structures; their origin, topographic effect, and economic importance. Prerequisite: 211b (221a and 321b are recommended). Open to juniors and seniors only. Lec. M T W 10, W 11 at the option of the instructor; lab. W 2-4. Mrs Kierstead. (C)
- 342b *Field Geology.* Methods; theory and use of Brunton, alidade, and other mapping instruments; topographic and geologic surveying; applied structural geology. Open to juniors and seniors only. Prerequisite: 211b and 221a (321b and 341a recommended). Offered in alternate years. M T 12; lab. T 2-6. Mr Burger.
- 343a *Land Surfaces of Eastern United States.* Physiographic foundations of American regional, economic and social culture. Systematic description of physical divisions of eastern United States. Geomorphic processes and principles. Prerequisite: 211b. Open to sophomores by permission of the Department. Th F 8:40. Mr Collins. (C, G)
- 343b *Land Surfaces of Western United States.* Physiographic foundations of American regional, economic and social culture. Systematic description of physical divisions of western United States. Prerequisite: 343a. Th F 8:40. Mr Collins. (C, G)

GEOLOGY & GEOGRAPHY

- 344a *Geological Oceanography*. The structural, depositional and physiographic features of the ocean floors and continental margins; economic geology of the oceans. Prerequisite: 211b. Open to sophomores by permission of the Department. M T W 9; lab., two hours to be arranged. Mr Schalk. (B, C, G)
- 351a *Geography of Asia*. Influence of relief, climate, and natural resources on the life, movements, and history of its peoples. Open to sophomores by permission of the instructor. M T W 10, W 11 at the option of the instructor. Miss Stobbe. (G)
- 352b *Geography of Europe and North Africa*. Geographic backgrounds of current problems. Open to sophomores by permission of the instructor. M T W 10, W 11 at the option of the instructor. Miss Stobbe. (G)
- 353a *Latin America*. Geography of Latin America; the influence of physiography, climate and natural resources on the cultural, political and economic development of the countries. Open to sophomores by permission of the instructor. M T W 12. Miss Stobbe. (G)
- 371a, b Honors Project. By permission of the Department. Members of the Department. (A, B, C, G)

GRADUATE

- 401a, b *Advanced Work or Special Problems in Geology*. By permission of the Department. Members of the Department. (A, B, C)
- 421a *Optical Mineralogy*. Advanced study of optical properties and identification of minerals in fragments and in thin section. Prerequisite: 321b. Two lectures and a three-hour laboratory. Miss Stobbe. (A)
- 431a, b *Micropaleontology*. A study of foraminifera and other microfossils, their use, identification, ecology and paleoecology. By permission of the instructor. Two hours of lecture, four hours of laboratory. Mrs Kierstead. (B)
- 471a, b Research and thesis in geology. Members of the Department. (A, B, C)

THE MAJORS

GEOLOGY

- Fields: A. Mineralogy and related courses.
B. Paleontology and related courses.
C. Physiography, Structural Geology, and related courses.
G. Geography.

Advisers: Mrs Kierstead, Mr Collins, Mr Schalk, Miss Stobbe.

GEOLOGY & GEOGRAPHY

Basis: 111a (or 111b) and 211b (or 11 for Classes of 1968 and 1969).

Requirements: Nine semester courses, including the following: 221a, 231a, 321b, 332b, 341a, 342b, 343a (331b is strongly recommended, but not required), and two additional courses in geology, or related sciences. Students are advised to take Chemistry 111a and Mathematics 103a in college unless the equivalent has been offered for admission. Zoology 100a and 105b are recommended for majors concentrating in paleontology. Majors who plan to go on to graduate school and concentrate in the fields of Structural Geology, Geomorphology, or Petrology are advised to take Physics 115 in college.

Two examinations: an examination chosen from Fields A, B or C (based on at least two courses at the advanced level or higher in the field chosen; courses that fulfill this requirement are designated A, B and/or C); and an examination in general geology.

GEOGRAPHY

Advisers: Mrs Kierstead, Mr Collins, Mr Schalk, Miss Stobbe.

Basis: 111a (or 111b) and 211b.

Requirements: Eight semester courses, including the following: 251a, 351a, 352b, 353a (343a and 343b are strongly recommended), and four courses chosen from Geography or, with the approval of the adviser, from related departments; at least two must be at the advanced level.

Two examinations: a field examination on one geographic area based on a minimum of two related courses of advanced level or higher taken in the department (courses in the Department that fulfill this requirement are designated G); and an examination on geographic concepts.

HONORS IN GEOLOGY

Director: Mrs Kierstead.

Basis: 111a (or 111b) and 211b.

Requirements: Nine semester courses as in the major; an honors project equivalent to one or two semester courses, begun not later than the first semester of the senior year.

Three examinations: Two will be identical with those required of majors, but a minimum grade of B will be required. A third, an oral, on the honors project, will be approximately one hour in length.

GRADUATE WORK IN GEOLOGY

Adviser of graduate study: Mrs Kierstead.

GERMAN LANGUAGE & LITERATURE

PROFESSORS:	PAUL GERALD GRAHAM, PH.D. MARIE SCHNIEDERS, PH.D.
ASSOCIATE PROFESSORS:	†REINHARD ADOLF LETTAU, PH.D. WILLY SCHUMANN, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	ALBERT MAXIMILIAN REH, PH.D.
INSTRUCTORS:	§YVONNE ELIZABETH LOSCH, A.B. ULRICH BUBROWSKI

For the Class of 1967, German 225a and b or 226a and b will fulfill both the foreign language requirement and the distribution requirement in Group A. German 111b or 112 will fulfill the language requirement for classes subsequent to the Class of 1967.

Students who enter Smith with previous preparation in German will be assigned, on the basis of a placement examination, to the appropriate courses.

Students who plan to major in German or wish to spend the junior year in Germany should take German in the first two years. A course in European history and a course in philosophy are also recommended.

A. German Language

- 111 *Elementary Course*. Five class hours. Three hours each semester. M T 9, W Th F 2:20; M T Th F S 9; M T 9, Th F S 10; M T W Th F 9; M T W 3:20, Th F 9. (A special section for those seniors who wish greater emphasis on reading ability will be given M T W 12.) Members of the Department. Miss Schnieders (*Director*).
- 111b *Elementary Course* (covering the work of two years). Seven class hours. M T W Th F 10 and two hours to be arranged. (*Three semesters' credit*). Miss Schnieders. (L)
- 112 *Intermediate Course*. Normal prerequisite: two entrance units; or German 111. M T W 10, 3:20; Th F 12, S 11. Lec. Th 5:20. Members of the Department. Mr Reh (*Director*). (L)
- 221a, 221b *Composition and Conversation*. Normal prerequisite: three entrance units; or 111b, 112. M T W 12. Mr Bubrowski. (L)

B. German Literature

The prerequisite for advanced courses is an intermediate course or the equivalent.

- 225a, 225b *Readings in German Literature*. Representative works (narrative, dramatic, lyric) from the Romantic period to Brecht. Normal prerequisite: three entrance units or 111b, 112, or the equivalent. Th F S 10. Mr Schumann. (L)

GERMAN LANGUAGE & LITERATURE

- 226a, 226b *An Introduction to the Classical Literature of the Eighteenth Century*. Selections from the works of Lessing, Goethe, and Schiller. Normal prerequisite: three entrance units or 111D, 112, or the equivalent. M T W 10. Mr Graham. (L)
- 332a *German Literature from the Earliest Times to 1250*. Nibelungenlied, the courtly epic, Minnesang. Miss Schnieders.
- 332b *German Literature from 1250 to 1750*. Humanism, the Reformation, the Baroque, and the Enlightenment. Mr Schumann.
- 333a *The Age of Goethe (1750-1830)*. Storm and Stress, and the Classical Period. Mr Reh.
- 333b *The Age of Goethe (1750-1830)*. Romanticism. Mr Graham.
- 334a *German Literature in the Nineteenth Century*. Realism and Naturalism, from Heine to Hauptmann. Mr Graham.
- 334b *Modern German Literature*. Nietzsche, Rilke, Thomas Mann, Kafka, Brecht, and others. Mr Bubrowski.
- 335b *Goethe's Faust, Parts I and II*. Mr Reh.
- 340b Senior paper required of all majors (in 1966-67 only). Members of the Department.
- 341, 341a, 341b Special Studies arranged in consultation with the Department. By permission of the Department for senior majors.
- 442a *Contemporary German Literature*. From 1945 to the present. Mr Schumann.

C. German Literature in Translation

- 227a [227b] *Modern German Literature*. Nietzsche, Hauptmann, Kafka, Rilke, Thomas Mann, Brecht, Grass, Johnson. Th F 3:20-4:30. Mr Schumann.

D. Germanic Philology

- 443b *Introduction to Middle High German*. A study of the language with selected readings, in the original, from the literature of the period. Miss Schnieders.

E. Graduate

- 450, 450a, 450b Research and Thesis. *May be taken for double credit*.
- 451, 451a, 451b Special Studies in the fields of literature and linguistics arranged in consultation with the Department.

Adviser of Graduate Study: Mr Graham.

GERMAN LANGUAGE & LITERATURE

THE MAJORS

PLAN A. GERMAN LITERATURE.

Adviser: Miss Schnieders.

Based on 111D or 112.

Requirements: Ten semester courses, including the following: 221a or 221b; two selected from 225a, 225b, 226a, and 226b; as well as 332a, 333a, 333b, 334b, 340b (in 1966-67 only), and two other semester courses in the Department above the intermediate level.

Two examinations: An examination in one of the three fields listed below; and an examination on a particular epoch or genre.

Fields: German Literature from the Earliest Times to the Eighteenth Century (800-1750).

German Literature in the Age of Goethe (1750-1830).

German Literature in the Nineteenth and Twentieth Centuries (1830 to the present).

PLAN B: GERMAN CIVILIZATION.

Adviser: Miss Schnieders.

Based on 111D or 112, and History 103a and 104b.

Requirements: Nine semester courses, including the following: 221a or 221b; two selected from 225a, 225b, 226a, and 226b; as well as 333a, 334b, German Civilization 340b (in 1966-67 only), and three related semester courses to be chosen from Government 220a, 261b; History 248b, 255a; Philosophy 124b.

Two examinations: An examination taken in *one* of the fields listed under Plan A; a second, divided into two parts (based on the program of the individual student), consisting of (a) Problems in the Literature of the Age of Goethe, or the Literature of the Twentieth Century; (b) one or more major historical aspects of German Civilization.

HONORS

Director: Mr Schumann.

Requirements: the courses required for the major; a unit involving the writing of a long paper in the first semester of the senior year.

Three examinations: a departmental field examination; an examination in a specialized field; an examination which may include such topics as problems of analysis, criticism, and translation.

GOVERNMENT

PROFESSORS:	CECELIA MARIE KENYON, PH.D. §ALAN BURR OVERSTREET, PH.D. LEO WEINSTEIN, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	†CHARLES LANGNER ROBERTSON, PH.D. †STANLEY ROTHMAN, PH.D. MARGARET LOUISE BATES, D.PHIL. PETER NILES ROWE, PH.D. IBRAHIM A. ABU-LUGHOD, PH.D.
ASSISTANT PROFESSORS:	JAY B. SORENSON, PH.D. PHILIP GREEN, PH.D. THOMAS PAUL JAHNIGE, PH.D. DONALD LEONARD ROBINSON, B.D., PH.D.
LECTURERS:	ROBERT JULIAN BENEWICK, PH.D. STEPHEN ELKIN, A.M. D. BRUCE MARSHALL, M.A.

The Class of 1967 may fulfill the distribution requirement in Group E by any year course or any two semester courses in the same section.

For students who plan to major or to do honors work in the department, appropriate courses in economics, sociology, and history are recommended. See also the honors program.

Advanced courses require the permission of the instructor and ordinarily presume as a prerequisite an intermediate course in the same field.

- 100 *Introduction to Political Science.* A study of the leading ideas of the Western political tradition and their application to the analysis of contemporary political systems. For freshmen and sophomores only. Two lectures and one discussion. Lec. M T 12; dis. W 9, 12, 2; Th 9, 12; F 11. Mr Leo Weinstein and other members of the department.

A. American Government

- 200 *American Government.* The processes and functions of American government in the light of the principal concepts of American democracy. *Not recommended for students planning to do advanced work in the American Government field.* M T W 10. Mr Robinson.

GOVERNMENT

- 201a *American Constitutional Development.* The origins and framing of the Constitution; contemporary interpretations; the study of Supreme Court decisions, documents, and other writings dealing with the interpretation of the Constitution, with emphasis on changing ideas concerning federalism and separation of powers. M T 11-12:30. Mr Jahnige.
- 201b *American Constitutional Law.* Fundamental rights of citizens as interpreted by decisions of the Supreme Court, with emphasis on the interpretation of the Bill of Rights and the Fourteenth Amendment. M T 11-12:30. Mr Leo Weinstein.
- 202a *American Political Parties.* Their structure, operation, and place in the American system of government. Field study and participation in a political campaign. M T W 2:20. Mr Robinson.
- [203a *Public Administration.* Political aspects of government regulations, with emphasis on transportation, public utilities, housing, and atomic energy development.]
- 203b *Administration and Policy Development.* The bureaucracy: administrative officials and the determination of public policy, with emphasis on the problem of securing responsible government through Congressional supervision, judicial review, and Presidential control. M T W 10-10:50. Mr Jahnige.
- 204a *City Government and Politics.* Political implications of urbanization, structure and process of municipal government, urban redevelopment and planning. M T W 10, and other meetings by arrangement with the instructor. Mr Elkin.
- 205a *Congress and the Legislative Process.* An analysis of the legislative process in the United States, focused on the contemporary role of Congress in its relations with the Presidency, the federal bureaucracy, and pressure groups. M T W 3:20-4:10. Mr Green.
- 205b *The American Presidency.* An attempt to analyze a fluid institution in a going political system. Stress will be placed on the evolution of the modern presidency and its relationship to democratic theory. M T W 2:20. Mr Elkin.
- 300a *Seminar in American Government.* Topic for 1966-67: The Judiciary in America. Judicial decision-making and the courts as a focus of government will be emphasized. Mr Jahnige.
- [300b *Seminar in American Government.* Mr Leo Weinstein.]

GOVERNMENT

- 301a *Seminar in the Politics of Metropolitan Areas.* Mr Elkin.
- 301b *Seminar in Public Opinion and Pressure Groups.* Mr Green.
- 302a *Seminar in American Government: The Framework of Political Decision-Making.* Mr Green.
- 302b *Seminar in American Political Parties.* Mr Robinson.

B. Comparative Government

220a is suggested preparation for all courses in this field.

- 220a *European Government.* The dynamics of political decision-making in England, France, and Germany. Emphasis will be on comparative analysis, but students will have the opportunity to specialize in the country of most interest to them. M T W 9. Mr Benewick.
- 221a *Government and Politics of the Soviet Union.* The role of Marxism-Leninism in Soviet politics; the role of a Communist Party in Soviet government and society; problems of industrialization; stages of development and political change; the balance of political forces and pressures in Soviet society. M T W 10-10:50. Mr Sorenson.
- 222b *Governments and Politics of the Middle East and North Africa.* The traditional Islamic political system. The transformation of that system into a modern nation-state system under the impact of Westernization, nationalist ideology, and other social and economic forces. The structures and functions of present governments in the area. Internal tensions and conflicts within and the international relations of the region. How the Middle East affects and is affected by the East-West contest for power, with special reference to American foreign policy. Th F 8:40-10. Mr Abu-Lughod.
- 223b *The Commonwealth of Nations.* Its development and organization, and a study of political ideas and institutions in Canada, Australia, New Zealand, India, and newer countries of the Commonwealth; relations with the United States and with international organizations. Th F 2-3:20. Miss Bates.
- [224a *Latin American Political Systems.* A comparative analysis of Latin American political systems. Emphasis of the course will be on the relationship between social and political variables, and the processes of political decision-making. Argentina, Brazil, and Mexico will receive major attention, but students will have the opportunity to specialize in the country of most interest to them. M 11-12:50, T 12-12:50.]

GOVERNMENT

- 225a *Africa South of the Sahara.* An introductory study of political, economic, and social factors. Th F S 9. Miss Bates.
- 226a *Politics and Government in South Asia.* Theory and practice of political development, primarily in India and Pakistan. Emphasis on the interaction of social structure and political processes and institutions. South Asian regional politics and the role of the Western and Soviet powers in the area. M T 2-3:10. Mr Rowe.
- 320b *Seminar in Comparative Government.* Topic for 1966-67: The Politics of the European Right. Mr Benewick.
- 322b *Seminar in Comparative Government: Soviet Politics in the Post-Stalin Era.* Mr Sorenson.
- 323a *Seminar in Comparative African Governments: South, Central, and East Africa.* Prerequisite: a course on Africa. Miss Bates.
- 323b *Seminar in Comparative African Governments: West Africa.* Prerequisite: a course on Africa. Miss Bates.
- 324b *Seminar in Comparative Government: Political Life in Contemporary India.* Alternates with 340b. M 3:20. Mr Rowe.

C. International Relations

240a is suggested preparation for all courses in this field.

- 240a *International Politics.* The context, practices, and problems of international politics. Lec. Th F S 10-10:50. Mr Marshall.
- 240b *International Organization.* The role and function of international organizations, both universal and regional, in international relations. Th F S 10-10:50. Mr Marshall.
- 241a *International Law.* The function of law in the international community, with special reference to the relation of law, politics, and social change. Th F S 9. Mr Abu-Lughod.
- 242a *Foreign Policy of the United States since 1898.* The growth of principles and practices of diplomacy from the emergence of the United States as a great power to the present. Concepts and themes developed under six presidents. M T W 10-10:50. Mr Rowe.

GOVERNMENT

- 242b *Foreign Policy of the United States.* An analytical treatment: the internal organization and political setting of United States foreign policy formulation and control. The nature of problems facing American decision-makers today. M T W 9. Mr Rowe.
- 340a *Seminar in International Politics.* Instability and World Order: Guerrilla War, Insurgency, and Intervention. Mr Marshall.
- [340b *Seminar in International Politics.* Alternates with 324b. Mr Rowe.]
- 341a *Seminar in International Relations.* Topic for 1966-67: Nationalism and Politics. Mr Abu-Lughod.

D. Political Theory

- 260a *Ancient and Medieval Political Theory.* Greek, Roman, Judaic-Christian, and barbarian foundations of the Western political tradition. The approach to the material will be both historical and analytical. Th 11-12:50, F 12-12:50, S 11-11:50 at the option of the instructor. Miss Kenyon.
- 260b *History of Political Theory, 1500-1800.* An analytical and critical consideration of major theorists and concepts from Machiavelli through Burke, including such topics as political power and political right; the political implications of religio-ethical diversity; the principle and the problems of popular sovereignty; the philosophical justification of liberty and equality; revolutionary republicanism, conservatism, and the question of man's capacity to create and control political systems. Th 11-12:50, F 12-12:50, S 11-11:50 at the option of the instructor. Miss Kenyon.
- 261b *Political Theory of the Nineteenth and Twentieth Centuries.* Hegel, Marx, Lenin, Hitler, Weber, Dewey, Freud, and others who have contributed to the development of political thought and social movements in the nineteenth and twentieth centuries will be subjected to systematic examination. M T W 10-10:50. Mr Sorenson.
- 262b *American Political Thought.* The evolution of the principles and practice of liberal democracy. American ideas concerning politics and government from the colonial period to the present. Th F S 10-10:50, F 11-11:50 at the option of the instructor. Miss Kenyon.
- 263b *Political Analysis.* An intensive consideration of methodological and philosophical questions that arise in the study of political phenomena. W 3:20-4:10, Th 3:20-5:10. Mr Green.

GOVERNMENT

360b *Seminar in Contemporary Political Thought.* A comparison of selected representatives of Western, Asian, and African political ideas. Th 7:30. Miss Kenyon.

[361b *Seminar in American Political Thought.*]

380a, b Directed reading required of majors in the department. To be taken for one semester only. Members of the Department.

381, 381a, 381b Special Studies. By permission of the department for senior majors.

HISTORY AND SOCIAL SCIENCE 395b *Interdepartmental Seminar in Economics, Government, History, and Sociology.* The Negro in America. Open to students by permission of the instructor. W 7:30. Mr Leo Weinstein, Mr Elkins [History], Mr Rose [Sociology].

[400 *Graduate Seminar in American Government.*]

[420 *Graduate Seminar in Comparative Government.*]

[440 *Graduate Seminar in International Relations.*]

[460 *Graduate Seminar in Political Theory.*]

THE MAJOR

Advisers: Mr Leo Weinstein, Miss Bates, Mr Rowe, Mr Sorenson, Mr Green, Mr Marshall, Mr Jahnige.

Based on 100 or, in exceptional circumstances, on an equivalent course approved by the chairman.

Requirements: Nine semester courses, including two of the three following semester courses in Political Theory: 260a, 260b, 261b; one in each of the remaining fields: American Government, Comparative Government, International Relations; 380a or 380b, to be taken in the junior year when the student has had, or is completing, two semester courses beyond the basis of the major; and three additional semester courses (two in Political Theory), or their equivalent, in one of the fields of government listed below, or in a special field: e.g., area studies to be arranged in consultation with the Departmental advisers.

Majors may spend the junior year abroad if they meet the College requirements.

Two examinations: (1) a field examination based on four semester courses, or their equivalent, in one of the four Departmental fields; (2) a comprehensive examination in the discipline of political science, based on 380a or 380b, in addition to work in the fields of government other than that selected by the student for her field examination.

GOVERNMENT

HONORS

Directors: For the Class of 1967, Miss Kenyon; for the Class of 1968, Mr Abu-Lughod.
Based on 100 or, in exceptional circumstances, an advanced course approved by the director.

Requirements: Nine semester courses (including one unit or seminar in both the junior and senior years): the unit in Political Theory, or its equivalent; one course in each of the remaining fields of government: American Government, Comparative Government, International Relations; 380a or 380b, ordinarily to be taken in the junior year, when the student has had, or is completing, two semester courses beyond the basis of the major; three additional semester courses (two in Political Theory), or their equivalent, in one of the fields of government listed, or in a special field: e.g., area studies to be arranged in consultation with the Departmental advisers; and a long paper counting for double semester credit, ordinarily in the first semester of the senior year.

Three examinations: Comprehensive examinations consisting of a written general examination in political science; a written examination in one field of political science; an oral examination based on the thesis and the field in which it is written.

Units

Political Theory. For the year. Mr Leo Weinstein.

Comparative Government. For the year. Mr Benewick.

International Relations. For the year. Mr Marshall.

[*American Politics.* For the year.]

HISPANIC STUDIES

PROFESSORS:	JUAN BAUTISTA AVALLE-ARCE, PH.D., <i>Chairman</i> JOAQUINA NAVARRO, PH.D.
ASSOCIATE PROFESSOR:	ERNA BERNDT KELLEY, PH.D.
ASSISTANT PROFESSOR:	§ JOSÉ ORTEGA, PH.D.
INSTRUCTORS:	QUENTIN CHAVOUS, M.A. ALICE RODRIGUES CLEMENTE, A.M. MARÍA ANTONIA BLEIBERG, PH.D. ISABEL MOLINA, LICENCIADA EN LETRAS HARRIET STEVENS TURNER, M.A.

The Class of 1967 may fulfill the foreign language and the distribution requirement in Group A by taking Spanish 100 (formerly 11D), or 101 and 102 or 103, and 212 or 215.

Classes subsequent to 1967 may fulfill the language requirement by taking Spanish 100, or 101 and 102 or 103.

The following preparation is recommended for students who intend to take the Spanish or Hispanic-American major: courses in Classics, either in the original or in translation; courses in other European literatures and history; a reading knowledge of another foreign language.

PORTUGUESE

- 120 *Elementary Portuguese.* Prerequisite: two years of Spanish or permission of the instructor. Hours to be arranged. Miss Clemente.
- 220a *Masterpieces of Portuguese Literature.* Prerequisite: 120. Hours to be arranged. Miss Clemente.
- 226b *Masterpieces of Brazilian Literature.* Prerequisite: 120. Hours to be arranged. Mrs Kelley.
- 321b *Eça de Queiroz.* The evolution of his novelistic technique and his role as a social critic. Prerequisite: 220a. Hours to be arranged. Miss Clemente.
- 326a *The Modern Brazilian Novel.* A study of the development of the Brazilian novel from the appearance of the *Os Sertões* to the present, with emphasis on the outstanding writers of the Northeast. Prerequisite: 226b. Hours to be arranged. Mrs Kelley.

SPANISH

- 100 *Elementary Course.* Six semesters' credit. M T 11-12:50, Th 11-12:50, F 12-12:50. Mrs Kelley. (L)

HISPANIC STUDIES

- 101 *Elementary Course.* Th F S 9-9:50; Th S 10-10:50, F 10-11:50; M 3:20-5:10, T W 3:20-4:10. Members of the Department.
- 102 *Intermediate Course.* Review of grammar and reading of modern prose. Prerequisite: two entrance units or 101. M T 10-10:50, W 10-12:50; Th F S 9-9:50. Members of the Department. (L)
- 103 *Grammar, Composition, and Reading.* Discussion of modern Spanish novels, plays, and poetry. Prerequisite: three entrance units. M T W 9-9:50; Th S 10-10:50, F 10-11:50. Members of the Department. (L)
- 200a *Prose Composition.* Prerequisite: 100, 102, 103. M T 2-3:10. Mr Chavous.
- 210b *Translation Course.* For students who need practice in translation for other disciplines. Prerequisite: 100 or its equivalent. M T 2-3:10. Mr Chavous.
- 212 *Reading of Modern Novels, Plays, and Poetry.* Prerequisite: four entrance units, or 100, 102, or 103. M T 11-12:50; Th 11-12:50, F 12-12:50, S 11-11:50. Members of the Department.
- 215 *Literary Currents in the Hispanic World.* An introduction to literary movements and genres from the Middle Ages to the present. Prerequisite: four entrance units, or 100, 102, or 103. M T 10-10:50, W 10-11:50. Mrs Kelley.

The prerequisite for the following Spanish courses is 212 or 215.

- 300 *Teachers' Course.* Review of Spanish grammar; discussion of methods; practice teaching. Hours to be arranged.

THE FORMATIVE PERIOD

- 330a *The Epic Tradition: Poems, Chronicles, and Ballads.* A study of the continuity of Spanish epic themes from the *Cantares de gesta* to the *Romancero*. M 3:20-5:10, T 3:20-4:10. Mrs Kelley.
- [331a *The Structure of the Spanish Middle Ages in Literature.* The legacy of the Moorish, Jewish and Christian traditions.]
- 332b *Seminar: The Libro de buen amor and La Celestina.* A study of medieval and pre-Renaissance themes. M 3:20-5:10. Mrs Kelley.
- [333b *Seminar: Lyric Poetry in the Hispanic World to the End of the Fifteenth Century.* The Peninsular traditions and the poetry of the Troubadours. Mrs Kelley.]

HISPANIC STUDIES

THE IMPERIAL PERIOD

- 340b *Cervantes: The Birth of the Modern Novel.* Th 3:20-5:10, F 3:20-4:10. Mr Avalle-Arce.
- 342a *Seminar: Poetic Themes in the Golden Age.* A detailed study of one or two of the seven major poets of the Golden Age: Garcilaso, Herrera, Luis de León, San Juan de la Cruz, Lope de Vega, Góngora, Quevedo. F 10-11:50. Mr Avalle-Arce.
- [343a *Lyric Poetry: Renaissance and Baroque.* The development of Spanish lyric poetry from Garcilaso and Boscán to Góngora and his followers. Mr Avalle-Arce.]
- 344a *Ideological Framework of the Imperial Age.* An analysis of the main currents of thought in sixteenth-century Spain, and their influence on life and literature. Th 3:20-5:10, F 3:20-4:10. Mr Avalle-Arce.
- [345a *Techniques of the Novel in the Golden Age.* Studies in the prevalent genres: chivalric, sentimental, pastoral, Byzantine, picaresque. Mr Avalle-Arce.]
- 346b *Seminar: Poetry and the Drama: Lope, Calderón.* Intensive analysis of the dramatic technique of one of these two major dramatists. F 10-11:50. Mr Avalle-Arce.
- [347b *Golden Age Drama: Juan del Encina to Calderón.* The development of the drama, from the latest medieval examples to the *autos sacramentales* of Calderón. Mr Avalle-Arce.]
- 350a *The Literary Life of Colonial Hispanic-America.* The conflict between artistic attitudes and European influences that shaped the character of Hispanic-American letters. Th 11-12:50, F 12-12:50. Miss Navarro.
- [351a *Seminar: Hispanic-American Letters During the Eighteenth Century.* Miss Navarro.]

THE MODERN PERIOD

- 360a *Romanticism and the Revival of the Spanish Past.* Aspects of the re-creation of old legendary and historical material. Th F 8:40-9:50. Miss Navarro.
- [361a *Seminar: Spanish Romanticism in Its European Context.* European romantic currents and Spanish romantic practice; the political emigrations and their influence on Spanish literature. Miss Navarro.]
- 362b *Seminar: The Hispanic and the Universal in the Novels of Galdós.* An analysis of Galdós' complex integration of Spain's history and character with the more intimate conflicts of man. Th F 8:40-9:50. Miss Navarro.

HISPANIC STUDIES

- [363b *Realism in Spain: The Image of the Regions.* Regionalism as an original Spanish contribution to the nineteenth-century novel. Miss Navarro.]
- 364a *Tradition and Dissent: The Generation of '98.* The problem of Spain as seen in the writings of the forty years preceding the Spanish Civil War with special emphasis on the modern essay. M T W 10-10:50. Mr Chavous.
- [365a *New Directions in the Twentieth-Century Novel.* A study of the important novelists of the twentieth century in the light of their formal innovations and their artistic, philosophical and social preoccupations. Mr Chavous.]
- 366b *The Heritage of Modernism: Twentieth-Century Poetry.* Readings in twentieth-century poetry, accompanied by a study of its trends, schools and movements. M T W 10-10:50. Mr Chavous.
- [367b *Seminar on the New Drama: Themes and Trends.* Contemporary developments in Spanish drama from Benavente to the present. Mr Chavous.]
- 370b *Seminar: Hispanic-American Society in the Novel.* The novel as a mirror of vital aspects of Hispanic-America. Th 11-12:50. Miss Navarro.
- [371b *Currents in Modern Hispanic-American Poetry.* Nineteenth and twentieth century Hispanic-American poetry as a counterpart to 370b. Miss Navarro.]
- 380b Formerly 40b. Integrating unit for majors in the Class of 1967 only.

GRADUATE

Adviser of graduate study: Mr Avalue-Arce.

Students who wish to do graduate work in the Department are expected to have a knowledge of Latin.

- 400 Research and Thesis. (*May be taken for double credit.*)
- 402a, 402b *History of the Spanish Language.* Miss Navarro.
- 410a, 410b *Spanish Bibliography and Literary Methods.* Mr Avalue-Arce.
- 440 *Studies in Contemporary Spanish Literature.* A detailed examination of the main currents of Spanish contemporary literature emphasizing stylistic analysis.
- 460 *Studies in the Golden Age.* Traditionalism, Renaissance, Catholic Reformation: artistic and ideological problems, in reference to specific authors, works, and periods.
- 480a, 480b *Advanced Studies in Spanish Literature.* Arranged in consultation with the adviser of graduate study on subjects such as poetry of the Golden Age, Cervantes, Tirso and the Spain of his epoch, nineteenth- and twentieth-century prose.

HISPANIC STUDIES

THE MAJORS

Hispanic Studies

Adviser: Mrs Kelley.

Based on 100 or its equivalent.

Requirements: Ten semester courses, including 200a, 212 or 215, and seven courses above the intermediate level.

Two examinations: a field examination, a general examination.

Fields: The Formative Period.

The Imperial Period.

The Modern Period.

Hispanic-American Studies

Adviser: Miss Navarro.

Two programs are offered:

Program I: for students particularly interested in literature.

Based on Spanish 100 or its equivalent. By special permission, the language requirement may be partially fulfilled with Portuguese.

Required courses: Ten semester courses, including the following: 200a, 212 or 215, five courses to be selected from 344a, 350a, 351a, 366b, 370b, 371b, Portuguese 226b and 326a; and two courses outside the Department, to be selected with the adviser, dealing with Hispanic-America.

Examinations: one field examination; one general examination.

Fields: the Hispanic-American Colonial Period; the Hispanic-American Modern Period (from the time of independence to the present.)

Program II: for students mainly interested in fields other than literature.

Based on Spanish 100 or its equivalent, History 225a, 286b. By special permission, the language requirement may be partially fulfilled with Portuguese.

Required courses: Ten semester courses, including the following: Spanish 212 or 215; two advanced courses in Hispanic-American literature; six courses, to be selected from Economics, Geology, Government, Hispanic Studies, History, and Sociology, on Hispanic America or related subjects, three of which must be taken in the same discipline.

Two examinations: a field examination taken in the discipline of greater concentration; an integrating examination to be arranged by the adviser and members of the other departments concerned.

Fields: The department foresees fields in Government, History, Economics, and Sociology.

HISPANIC STUDIES

HONORS

Director: Mrs Kelley.

Based on 100 or its equivalent.

Requirements: Ten semester courses, including the following: 200a, 212 or 215, and seven courses above the intermediate level, of which three must be seminars; and a long paper equivalent in credit to one or two semester courses written in the first semester of the senior year.

Three examinations: a comprehensive examination; a field examination; an examination in a second field to be determined by the Department.

HISTORY

PROFESSORS:	<p>THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D., L.H.D.</p> <p>MAX SALVADORI, DR. SC. (POL.), LITT.D. (HON.)</p> <p>**JEAN STRACHAN WILSON, PH.D.</p> <p>KLEMENS VON KLEMPERER, PH.D.</p> <p>†DONALD HENRY SHEEHAN, PH.D.</p> <p>CHARLES WHITMAN MACSHERRY, PH.D.</p> <p>LOUIS COHN-HAFT, PH.D., <i>Chairman</i></p> <p>NELLY SCHARGO HOYT, PH.D.</p> <p>RAMÓN EDUARDO RUIZ, PH.D.</p> <p>STANLEY MAURICE ELKINS, PH.D.</p>
ASSOCIATE PROFESSORS:	<p>PETER D'ALROY JONES, PH.D.</p> <p>GERARD ERNEST CASPARY, PH.D.</p>
ASSISTANT PROFESSORS:	<p>**ALLAN MITCHELL, PH.D.</p> <p>RENÉE NEU WATKINS, PH.D.</p> <p>†ROBERT MITCHELL HADDAD, PH.D.</p> <p>HAROLD FRUCHTBAUM, PH.D.</p> <p>JOAN M. AFFERICA, PH.D.</p> <p>RAYMOND JACKSON WILSON, PH.D.</p>
INSTRUCTOR:	<p>ROBERT THOMAS McDONALD, A.M.</p>
LECTURERS:	<p>¹LILLIAN BRENIG SILVER, M.A.</p> <p>RICHARD NESMITH VERDERY, A.M.</p> <p>ALLEN WEINSTEIN, A.M.</p>

Members of the Class of 1967 may fulfill the Group D requirement by taking two semesters of work in history, to be selected after consultation with the Chairman of the Department.

Freshmen eligible for advanced placement in history and all sophomores may register for all intermediate level courses except those from which they are excluded in an individual course description.

Freshmen may become eligible for advanced placement by achieving a satisfactory grade on either the College Board Advanced Placement Examination or the departmental placement examination. Special cases should be referred to the Chairman of the Department.

HISTORY

- 101a, 102b *Western History to 1453*. The development of western society from the beginning of civilization in Mesopotamia and Egypt to the fall of the Byzantine Empire. Lec. (occasional) M 10; dis. M T W 10 or 3:20. Mr Cohn-Haft, Mr Caspary (*Directors*) and members of the Department.
- 103a, 104b *Western History from 1453*. First semester, Europe: 1450-1799. Second semester: Europe from Napoleon to the present day, *or* (at student's option) the Americas in the Colonial Period. Lec. (occasional) M 3:20; dis. M T W 9, 10 or 3:20; Th 11, F 12, S 11; Th F 2-3:10. Mrs Hoyt (*Director*) and members of the Department.
- 201a *Pro-seminar in Problems in Historical Analysis*. A pro-seminar devoted to problems of method and historical materials. Illustrative examples in each pro-seminar will be taken from a single field (i.e., American history, modern European history, etc.). Fields offered: Ancient, Medieval, Early Modern, European, United States, English. M 3:20-5:10; W 10-11:50; Th 4:20-6:10. (Students not majoring in history will be admitted only by written permission of the Chairman of the Department.) Members of the Department.
- 202b *Pro-seminar in Problems in Historical Analysis*. Same as above. For students entering the major as sophomores. M 3:20-5:10; W 10-11:50; Th 4:20-6:10.

Division I (Pre-Modern)

- [205b *The Ancient Near East*. Introduction to the history and modern study of the earliest civilizations of the Near East, from the Sumerians and the Old Kingdom in Egypt to the Persian Empire. M 3:20-5:10; T 3:20-4:10. Mr Cohn-Haft.]
- 206a *Classical Greece*. M 3:20-5:10; T 3:20-4:10. Mr Cohn-Haft.
- [209a *The Roman Republic*. M T W 12. Mr Cohn-Haft.]
- 210b *The Roman Empire*. M T W 12. Mr McDonald.
- 216a *Early English History to 1603*. M T W 12. Mr Caspary.
- 217a *The Medieval World from 300 to 1050*. M T W 9. Mr McDonald.
- 218b *The Medieval World from 1050 to 1400*. M T W 9. Mr McDonald.
- 219b *Intellectual History of Europe in the Middle Ages*. Recommended background: 101a, 102b, 216a, 217a, or 218b. M T W 2. Mr Caspary.
- [220b *The Byzantine Empire, 330-1453*.]

HISTORY

- 221a *History of the Islamic Middle East to the Sixteenth Century.* From Muhammad through the reign of Sulayman the Magnificent. M T W 9. Mr Verdery.
- 222a *Far Eastern History to 1800.* The formation of a distinctive civilization in China; its extension and modification in China and Japan and other areas of Eastern Asia. M T 2-3:10. Mr MacSherry.
- 225a *Hispanic-America in the Colonial Period.* Spanish and Portuguese America from the pre-Conquest era through the winning of independence in 1824. Lectures and discussions stressing intellectual, social, and political developments. Th F S 10, F 11 at the option of the instructor. Mr Ruiz.
- 230b *English History since 1603.* (Counts in both divisions for the purpose of the major distribution requirement). T 11-12:50, W 12. Mr Jones.
- [231a *History of France from 1453 through the French Revolution.* Alternates with 237a. Th F 8:40-9:50. Mrs Hoyt.]
- 233a *History of Russia from the Kievan Period to 1801.* Th F S 10-10:50, F 11 at the option of the instructor. Miss Afferica.
- 234a *The Age of the Renaissance.* The economic and social history of Europe, 1350-1500, including a consideration of the visual arts and of humanism. M T W 9. Mrs Watkins.
- 235b *The Age of the Reformation.* Europe in the sixteenth century. Religious developments, the continuing impact of humanism, and the beginnings of modern science are viewed in relation to the religious and political background. M T W 9. Mrs Watkins.
- [236a *England Under the Tudors and Stuarts.* Political, social, and intellectual history of England in the sixteenth and seventeenth centuries. Alternates with 254a. M T W 10-10:50. Miss Wilson.]
- 237a *The Age of Absolutism.* Political, social, and economic problems of Continental Europe from 1648-1789. Th F 8:40-9:50. Mrs Hoyt.
- 238b *Intellectual History of Europe in the Eighteenth Century.* Freshmen and sophomores admitted only by permission of the instructor. Th F 8:40-9:50. Mrs Hoyt.
- [276b *Foundations of American Civilization.* A comprehensive analysis of the European origins of American civilization, and of the economic, political, social, and religious development of the colonies up to the era of the Revolution. M T 11, W 12.]

HISTORY

Division II (Modern)

- 246a *History of France from Napoleon to the Present.* Alternates with 250b. Th F S 9. Mr Mitchell.
- 247b *History of Russia from 1801 to the Present.* Th F S 10-10:50, F 11 at the option of the instructor. Miss Afferica.
- [248b *Problems of German History from 1815 to the Present.* Alternates with 251b. M T 2. Mr von Klemperer.]
- 249a *Intellectual History of Europe in the Nineteenth Century.* Open to sophomores only by permission of the instructor. Th F S 10-10:50, F 11 at the option of the instructor. Mr Mitchell.
- [250b *Intellectual History of Europe in the Twentieth Century.* Alternates with 246b. Not open to those who have taken 251b. Open to sophomores only by permission of the instructor. Th F S 9. Mr Mitchell.]
- 251b *Europe Between the Two World Wars.* Alternates with 248b. Not open to those who have taken 250b. M T 2. Mr von Klemperer.
- 252a *Modern European History.* Europe's liberal age; the transformation of European nations, 1814-1917. M T 11-12:10, W 12 at the option of the instructor. Mr Salvadori.
- 253b *Modern European History.* Conflicts and revolutions in Europe 1878-1948. M T 11-12:10, W 12 at the option of the instructor. Mr Salvadori.
- 254a *Modern Britain.* Political, social, and intellectual history of Britain in the nineteenth and twentieth centuries. Alternates with 236a. M T W 10-10:50. Miss Wilson.
- 255a *Central Europe, 1815 to the Present.* A study of Central Europe in the nineteenth and twentieth centuries. The Habsburg Monarchy and its successor states. Problems of a multinational area in an age of nationalism. The interaction between this area and the great powers. M T 2-3:10, Mr von Klemperer.
- [256b *Modern Imperialism.* Rise and decline of empires, Western and Eastern, from the sixteenth to the twentieth century. M 3:20-5:10, T 3:20-4:10. Mr Salvadori.]
- 257b *History of the Islamic Middle East from the Sixteenth Century.* From the death of Sulayman to 1914. M T W 9. Mr Verdery.

HISTORY

- 258b *Far Eastern History since 1800.* The period of internal transformation and extensive Western influence. M T 2-3:10. Mr MacSherry.
- 259a *Development of Western Economic Society.* Economic revolution in the West, 1750-1870. An introductory study of the creation of industrial society in Britain and its diffusion to Western Europe and the United States. M T 2-3:10. Mr Jones.
- 260b *Development of Western Economic Society: Problems of Capitalist Society 1870 to the Present.* The problems faced by mature industrial capitalism and the economic solutions evolved by Western society. M T 2-3:10. Mr Britt [Economics].
- 270a *American Political History from the Eighteenth Century to 1865.* W Th F 2. Mr Allen Weinstein.
- 271b *American Political History from 1865 to 1945.* W Th F 2. Mr Allen Weinstein.
- 272b *Economic History of the United States in the Twentieth Century.* The recent history of the American economy, studied in close relation to its social and cultural context. T 10-10:50, W 10-11:50. Mr Jones.
- 273a *American Intellectual History, 1607-1865.* Early development of significant American ideas and social attitudes in relation to social and economic environment. Special emphasis on interchange of American and European ideas, agencies of intellectual life, and developments in religion, science, and the arts. Th 11, F 12, S 11. Mr Wilson.
- 274b *American Intellectual History, 1865-1950.* The historical background of contemporary American thought, emphasizing the influence of industrialism, science and religion. Th 11, F 12, S 11. Mr Wilson.
- 275b *History of the South since the Reconstruction Period.* Th F S 10-10:50, F 11 at the option of the instructor. Mr Elkins.
- 285a *Argentina, Brazil, and Cuba.* Major Latin American countries since independence. An analysis of their political, social, and economic problems. Th F S 9. Mr Ruiz.
- 286b *Mexico and the Hispanic-Indian Republics of Latin America.* The racial, social, political, and intellectual development of Mexico and Latin American nations of similar historical backgrounds from independence to the present. Th F S 9. Mr Ruiz.
- 301, 302a, 303b Special Studies. By permission of the Department for senior majors who have had four semester courses above the introductory level. (Division I or II)

HISTORY

- 305b *Problems in the French Revolution.* A lecture-seminar course limited to sixteen students with appropriate previous training. Admission by permission of the instructor. Reading knowledge of French suggested. Th 11-12:50. Mrs Hoyt. (Division I)
- 306a *The United States during the Federalist and Jeffersonian Periods.* A reading and discussion course limited to eighteen students with appropriate previous training. Admission by permission of the instructor. F 10-11:50. Mr Elkins. (Division II)

Seminars

These courses are open with the permission of the instructors to seniors, and to juniors who have completed a second course in history. In special cases honors students may be permitted to take a seminar for double credit.

Division I (Pre-Modern)

- 310b *Studies in Greek History.* T 4:20-6:10. Mr Cohn-Haft.
- [316b *Studies in the Later Middle Ages.* Mr Caspary.]
- [317a *The Relations of Byzantium and the West.*]
- [330a *The Encyclopédie and the Enlightenment.* Th 11-12:50. Mrs Hoyt.]
- 332b *Renaissance Cities.* M 7:30. Mrs Watkins.
- 333a *The Expansion of Europe Overseas, 1500-1789.* M 4:20-6:10. Mr Mendenhall.

Division II (Modern)

- 334b *Topics in Russian History.* Topic for 1966-67: Peter the Great in Russian political and historical thought. Th 7:30. Miss Afferica.
- [346a *Modern Britain.* Th 4:20-6:10. Miss Wilson.]
- 347b *Modern Europe.* W 7:30. Mr Salvadori.
- [348b *Problems in European Intellectual History.* W 7:30. Mr Mitchell.]
- 349a *Modern Germany.* T 4:20-6:10. Mr von Klemperer.
- [350b *Capitalism and the Social Problem in Europe from the Industrial Revolution to the Crisis of 1929.* W 7:30. Mr Salvadori.]

HISTORY

- [370a *Problems in American Intellectual History*. Mr Wilson.]
- 371a *Problems in Modern Social and Economic History*. W 7:30. Mr Jones.
- 372b *United States Foreign Policy since 1898*. Th 4:20-6:10. Mr Allen Weinstein.
- 373a *The Antebellum South*. Th 4:20-6:10. Mr Elkins.
- 381a *Inter-American Affairs*. Latin America and the United States since 1900. Th 7:30. Mr Ruiz.
- 383b *Selected Problems in the History of the Middle East*. Topic for 1966-67: The Modernization of Egypt in the Nineteenth Century. T 4:20-6:10. Mr Verdery.
- 386b *Problems in the Intellectual History of the Far East*. Topic for 1966-67: The Challenge of Western Thought in Nineteenth- and Twentieth-Century China. W 10-11:50. Mr MacSherry.
- [388a *Selected Topics in Comparative History*.]

HISTORY AND SOCIAL SCIENCE 395b *Interdepartmental Seminar in Economics, Government, History, and Sociology*. The Negro in America. Open to students by permission of the instructor. W 7:30. Mr Elkins, Mr Leo Weinstein [Government], Mr Rose [Sociology].

Graduate Courses

Qualified undergraduates will be notified by the Department of their eligibility for graduate seminars.

400, 400a, 400b Research and Thesis. (*May be taken for double credit.*)

401, 402a, 403b Special problems in advanced work in history, arranged individually with graduate students.

[430a *Early Modern History*.]

450a *Modern European History*. W 7:30. Mr Salvadori.

470b *American History*. W 7:30. Mr Jones.

Adviser of graduate study: Mr Jones.

HISTORY

THE MAJOR

Advisers: Mr von Klemperer, Mr Ruiz, Mr Elkins, Mr Jones, Mr Caspary, Mr Mitchell, Mrs Watkins, Miss Afferica, Mr Wilson, Mr McDonald.

Adviser for the Junior Year Abroad: Mrs Hoyt.

Basis: History 101a, 102b, or 103a, 104b, or two semester courses in history.

Requirements: Ten semester courses, including three in each of the two areas of the field examinations (in addition to the basis), and four optional courses in the department or in related work. A pro-seminar (201a or 202b) must be included in the required courses. The illustrative subject matter of the pro-seminar will determine whether it is counted as an optional course or one taken in preparation for a field examination. A minimum of three semester courses, of which the basis of the major may count as one, must be taken in each of the two divisions: I (Pre-Modern) and II (Modern).

Division I (Pre-Modern): Ancient, Medieval, Early Modern, *Middle East (Pre-Modern), *Far East (Pre-Modern), *Latin America (Pre-Modern).

Division II (Modern): Modern Europe, United States, *Middle East (Modern), *Far East (Modern), *Latin America (Modern).

A maximum of three courses in fields marked with an asterisk (*) may be counted toward fulfilling the distribution requirement for majors.

Two examinations: One or more to be offered in each of the following subjects: Ancient, Medieval, Early Modern, Modern Europe, United States. Special Field Examinations: Middle East, Far East, Latin America, England, France, Germany and Central Europe, Russia. Normally, and particularly if the Department's offerings are taught by a single person, preparation for a Special Field Examination will include one course outside the Department. Students may not elect to take more than one Special Field Examination.

Any question regarding the field in which a given course counts should be referred to the student's major adviser.

HONORS

Directors: Miss Wilson (for the Class of 1967 during the first semester); Mr MacSherry (for the Class of 1968 during the first and for both classes during the second semester).

Basis: two courses in history, or one course in history and one in a field appropriately related to the honors program.

HISTORY

Requirements: a minimum of eight semester courses in history and two additional semester courses in history or in appropriately related courses in other departments. The work in history must include the Unit, *History and Historians*, and at least two other units or seminars offered by the department. A minimum of three courses (taken as a prerequisite or in the honors program) must be taken in both Divisions I and II. The courses in Division II must include one in Modern European and one in United States history.

A long paper: which will normally count as a single semester course. (Exception: permission for the long paper to count as two semester courses may be granted by the departmental Committee on Honors, on the advice of the director of the paper. In such instances the paper may be written in the first semester of the senior year, counting as two courses in the student's program; or in the second semester of the junior year and the first semester of the senior year, counting as one course in each semester.)

Three examinations: two field examinations, of which one may be taken before the end of the senior year; a third, special honors, examination.

Units

History and Historians (introductory unit). A study of great historians and of the development of historical thought. First semester. M 7:30. Miss Afferica.

[*Ancient History*. First semester. Mr Cohn-Haft.]

Medieval Europe. Second semester. Mr Caspary.

[*The Age of the Renaissance*.]

Western Europe in the Seventeenth Century, or England in the Sixteenth and Seventeenth Centuries. First semester. Miss Wilson.

[*Eighteenth-Century Europe*. Political, social, and economic problems. First semester. Mrs Hoyt.]

[*Modern Europe*. First semester. Mr Mitchell.]

Modern Europe. Second semester. Mr von Klemperer.

American Intellectual History. Second semester. Mr Wilson.

Recent Interpretations of American History. First semester. Mr Allen Weinstein.

[*American Party Politics in the Nineteenth Century*. Second semester. Mr Elkins.]

HISTORY

HISTORY OF SCIENCE

- 395a *The Newtonian Synthesis.* The biological and physical sciences from the Greeks to the nineteenth century, with the focus on the work and influence of Newton, his predecessors, opponents, and followers. The course emphasizes the significance of scientific ideas in intellectual history. M 3:20-5:10. Mr Fruchtbaum.
- 396a *The Darwinian Revolution.* Themes in the history of nineteenth-century science, with the focus on the work and influence of Darwin, his predecessors, opponents, and followers. The role of biology, physics, and the sciences of man in shaping the modern world view is examined. Amherst College. T 2-4:30. Mr Fruchtbaum.
- 397b *The Non-Scientific Foundations of Science.* The influence of theology and philosophy on the history of science. Topics include the role of teleology and natural theology in the development of astronomy, geology, and biology, and the inter-relations of science and religion. M 3:20-5:10. Mr Fruchtbaum.
- 398b *Science in America.* A history of scientific ideas and institutions in America from the colonial period to the twentieth century. Lectures and discussions will consider the mutual impact of science and American culture. Amherst College. T 2-4:30. Mr Fruchtbaum.
- 399a *The Social Setting of Science.* A history of scientific institutions and the professionalization of science. The state is treated as a promoter of technology, and the scientist as a maker of public policy. Open to sophomores by permission of the instructor. Mount Holyoke College. W 2-4:30. Mr Fruchtbaum.

ITALIAN LANGUAGE & LITERATURE

PROFESSOR:	§GIUSEPPE VELLI, DOTTORE IN LETTERE, <i>Chairman</i>
ASSISTANT PROFESSOR:	GUIDO FINK, DOTTORE IN LETTERE
INSTRUCTOR:	IOLE FIORILLO MAGRI, DOTTORE IN LINGUE E LETTERATURE STRANIERE, A.M.
LECTURER:	DANIELA SANI FINK, MATURITÀ CLASSICA

For the Class of 1967, 226 will fulfill both the foreign language requirement and the distribution requirement in Group A. With the permission of the Department, the distribution requirement may also be fulfilled by two semester courses of an advanced literature course. 111D or 112 will fulfill the language requirement for classes subsequent to 1967.

It is recommended that students planning to major in Italian take History 103a, 104b, and Philosophy 124a, b. Those intending to spend the junior year in Italy should consult the chairman about preparatory courses.

111D or 112 is the prerequisite for 226 and all advanced courses.

In all literature courses majors will be required to write in Italian; non-majors may do written work in English.

A. Language

- 111 *Elementary Course*. Five hours. (Three class hours and two laboratory hours.) M T W 9, 12; and two hours to be arranged. Mrs Magri, Mrs Fink.
- 111D *Elementary Course* (covering the work of two years). M T W Th F 9, 2; two additional hours to be arranged for conversation count as preparation. *Three semesters' credit*. Mrs Magri, Mr Fink. (L)
- 112 *Intermediate Course*. Reading from modern Italian literature, including grammar and composition; followed by a survey of Italian civilization. Prerequisite: two entrance credits in Italian or 111. M T W 10. Mrs Fink. (L)
- 227a *Intermediate Composition*. Reading of and comment on contemporary, not exclusively literary, Italian texts with special emphasis on syntax and style. Italian-English and English-Italian translation. Prerequisite: 111D, 112, or permission of the Department. M T W 3:20. Mrs Magri.
- 301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had three semester courses above the introductory level. Members of the Department.

ITALIAN LANGUAGE & LITERATURE

- 331b *Advanced Composition*. Continuation of 227 with emphasis on composition. Prerequisite: 227 or permission of the Department. M T W 3:20.

B. Literature

- 226 *Survey of Italian Literature*. Reading of outstanding works, and consideration of their cultural and social background. M T W 2. Mr Fink. (L)
- 336 *Dante: Vita Nuova, Divina Commedia*. M 11-11:50, T 11-12:50. Mr Fink.
- [337a *Selected Readings from "Rerum Vulgarium Fragmenta."* Emphasis on the culture and style of Petrarch. Reasons for and nature of Petrarchism. T W 2:20, Th 4:20. To be given in 1967-68. Mr Velli.]
- [337b *Boccaccio's Decameron*. Themes, structure, and narrative technique. The position occupied by the work in the Italian prose tradition. Hours to be arranged. To be given in 1967-68. Mr Velli.]
- 338a *Machiavelli and Renaissance Thought*. Reading of *Il Principe* with ample selections from *Discorsi sopra la Prima Deca di Tito Livio* and from literary works (*Mandragola, Belfagor, Lettere*). Th 2:20-4:10, F 2:20-3:10. Mrs Fink.
- 338b *Ariosto's Orlando Furioso and the Literary Ideals of the Renaissance*. Analysis of the work and reading of significant episodes. Tasso's *Gerusalemme Liberata* and the spirit of the late sixteenth century. Analysis of Tasso's lyricism and the pre-baroque character of his art. Th 2:20-4:10, F 2:20-3:10. Mrs Fink.
- [339a *Culture and Literature of the Eighteenth Century*. Selected readings from Vico, *Scienza Nuova*; Alfieri, *Tragedie*; Foscolo, *Ultime Lettere di Jacopo Ortis, Sonetti, Sepolcri*. To be given in 1967-68.]
- [339b *Italian Romanticism*. Leopardi: selected readings from his *Canti*. Manzoni: *I Promessi Sposi*, and selections from minor works. To be given in 1967-68.]
- 340b *Directed Reading and Review*.
- 342b *Contemporary Literature from Verga to the Present*. Emphasis on postwar fiction and the position of the contemporary Italian writer, his attitude towards the problems inherent in his craft: literary tradition and personal expression, language and dialect. Hours to be arranged.

GRADUATE

450, 450a, 450b Research and Thesis.

451, 451a, 451b Advanced Studies.

Adviser of graduate study: Mr Velli.

ITALIAN LANGUAGE & LITERATURE

THE MAJOR

Adviser: Mr Fink.

Based on 111D or 112.

Requirements: Nine semester courses, including the following: 226; 331b, 336; 337a or b; 338a or b; two of the following: 339a, 339b, 342b; and 340b.

Two examinations: one in one of the fields listed below; the second a comprehensive examination based on the requirements for the major.

Fields: Dante.

The Italian Trecento; Petrarch and Boccaccio.

The Italian Renaissance.

Italian Neoclassic and Romantic Literature.

HONORS

Director: Mr Fink.

Based on 111D or 112.

Requirements: Nine semester courses, as in the major, and a long paper (a semester of independent work).

Three examinations: One on the general field of Italian literature; one on a departmental field; one on linguistic preparation.

MATHEMATICS

PROFESSOR:	NEAL HENRY MCCOY, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	BERT MENDELSON, PH.D. ALICE B. DICKINSON, PH.D.
ASSISTANT PROFESSORS:	DONALD ALASTAIR TRUMPLER, PH.D. ROBERT JOHN FABIAN, PH.D.
LECTURER:	MARJORIE LEE SENECHAL, PH.D.

Students planning to take courses in mathematics are expected to offer at least three entrance credits in mathematics; those planning to major in mathematics are advised to take courses in mathematics throughout the freshman and sophomore years. A course in astronomy or physics is also recommended.

- 102a *Mathematical Analysis*. Trigonometry, analytic geometry, some topics from algebra. Prerequisite: three entrance credits in mathematics, not including analytic geometry. M T W 10, W 11 at the option of the instructor. Mr McCoy.
- 103a *Calculus I*. The derivative with applications, the integral, the mean value theorem and the fundamental theorem of calculus. Prerequisite: 102a or at least three entrance credits in mathematics including analytic geometry. M T W 12, T 11 at the option of the instructor; M T W 3:20, M 4:20 at the option of the instructor; Th F S 9; Th F S 10, F 11 at the option of the instructor. Members of the Department.
- 103b Repetition of 103a. M T W 10, W 11 at the option of the instructor. Mr Mendelson.
- 104a *Calculus II*. Applications of the definite integral, inverse functions, logarithmic and exponential functions, techniques of integration, vectors in two and three dimensions. Prerequisite: 103a, 103b (12), or four entrance credits in mathematics including analytic geometry and at least a half-year of calculus. M T W 3:20, M 4:20 at the option of the instructor; Th F S 10, F 11 at the option of the instructor. Mr Mendelson, Mr Fabian.
- 104b Repetition of 104a. M T W 12, T 11 at the option of the instructor; M T W 3:20, M 4:20 at the option of the instructor; Th F S 10, F 11 at the option of the instructor. Members of the Department.

MATHEMATICS

- 202a *Calculus III*. Partial differentiation and multiple integration with applications. Prerequisite: 104a or b (13). M T W 9, 10. Mr Trumpler, Mrs Senechal.
- 202b Repetition of 202a. M T W 3:20, M 4:20 at the option of the instructor; Th F S 10, F 11 at the option of the instructor. Mr Mendelson, Mr Fabian.
- 203a *Topics in Calculus and Linear Algebra*. Prerequisite: 202a or b (21 or 22a). W Th F 2:20. Mr Fabian.
- 203b Repetition of 203a. M T W 9, 10. Mr Trumpler, Mrs Senechal.
- 204b *Topics in Applied Mathematics*. Linear transformations and matrices, line and surface integrals, and special functions useful in applications. Prerequisite: 203a or b (31a or 22b). M T 2-3:10. Mrs Dickinson.
- 222a *Differential Equations*. Theory and applications of ordinary differential equations. Prerequisite: 202a or b (22b or 31a). M T 2-3:10. Mrs Dickinson.
- 233a *Modern Algebra*. An introduction to the most important concepts of abstract algebra, including rings, fields and groups. Prerequisite: 202a or b (21 or 22a), or permission of the instructor. Lec. W 9; sect. M T 9, 12. Mr McCoy.
- 234a *Projective Geometry*. Axioms, duality, projectivities, equivalent formulations of the fundamental theorem, introduction of coordinates, conics. Prerequisite: 202a or b (21 or 22a), or permission of the instructor. M T W 10. Mr Mendelson.
- 236a *Theory of Computers*. Introduction to mathematical models of digital computers including Turing machines and finite automata, and topics in the logical design of switching circuits. Prerequisite: 233a (33a), or permission of the instructor. W Th F 3:20. Mr Fabian.
- 238b *Theory of Numbers*. Properties of integers including congruences, primitive roots, quadratic residues, continued fractions. Prerequisite: 233a (33a). M T W 3:20, M 4:20 at the option of the instructor. Mr McCoy.
- 240b *Differential Geometry*. Differential geometry of curves and surfaces in three dimensions. Prerequisite: 203a or b (22b or 31a). M T W 12. Mr Mendelson.

MATHEMATICS

- 242a *Topology*. Point set topology, the real line, metric spaces, abstract topological spaces. Prerequisite: 203a or b (22b or 31a). M T W 12. Mr Mendelson.
- 244b *Complex Variables*. Complex numbers, differentiation, integration, Cauchy integral formula, calculus of residues, applications. Prerequisite: 203a or b (22b or 31a). W Th F 2:20. Mr Fabian.
- 246b *Probability*. Mathematical theory of probability with an introduction to mathematical statistics. For students who have passed or are taking 202a or b (21 or 22a). W Th F 3:20; Th 4:20 at the option of the instructor. Mr Fabian.
- 301a, 301b *Special Studies*. By permission of the Department for majors who have had at least four semester courses beyond 104a or b (13 or the first semester of 21).
- 333b *Topics in Abstract Algebra*. Vector spaces, linear transformations, further study of topics included in 233a. Prerequisite: 233a (33a), M T W 9. Mr McCoy.
- 340b *Topics in Foundations of Mathematics*. Required of senior majors. Open to juniors by permission of the instructor. Th 11-12:50. Mrs Dickinson.
- 343a *Advanced Calculus I*. A rigorous treatment of the concepts of the calculus. Prerequisite: 203b or 204b (22b or 31a). M T W 10. Mr Trumpler.
- 343b *Advanced Calculus II*. Prerequisite: 343a. M T W 10. Mr Trumpler.

GRADUATE

- 420a, b *Special Studies in Topology and Analysis*.
- 430a, b *Special Studies in Modern Geometry*.
- 440a, b *Special Studies in Algebra*.

THE MAJOR

Advisers: Mr McCoy, Mr Mendelson, Mrs Dickinson.

Based on 104a or b (13 or the first semester of 21), or a course at a higher level.

Requirements: Eight semester courses, including 203a or b (22b or 31a), 233a (33a), and 340b. Two of the eight may be chosen from the following: As-

MATHEMATICS

tronomy 121a and b or courses at a higher level; Chemistry 231a and b, 345a, 455a and b; Philosophy 231b or 455a; Physics 121a and b or courses at a higher level.

Examinations in any two of the following fields:

General Analysis (including Calculus and Differential Equations)

Modern Algebra (including the Theory of Numbers)

Geometry and Topology

Real and Complex Analysis (including Advanced Calculus and Complex Variables)

HONORS

Director: Mrs Dickinson.

Basis: 203a or b (22b or 31a), 233a (33a).

Requirements: in addition to the eight courses required for the major, students must take the honors units, 348a and b (which include the long paper), in the senior year.

Three examinations: an oral examination covering the topic of specialization in the honors units; two written examinations covering the general field of the major.

Units

348a Directed reading, exposition, and long paper. The topic of specialization will be chosen in consultation with the director at the beginning of the senior year. (*May be taken for double credit*).

348b Directed reading, exposition, long paper, review and coordination.

MUSIC

PROFESSORS:	JOHN WOODS DUKE †DORIS SILBERT, A.M. ALVIN DERALD ETLER, MUS.B. GERTRUDE PARKER SMITH, A.M. †IVA DEE HIATT, M.A., <i>Director of Choral Music</i> PHILIP KEPPLER, M.F.A. VERNON D. GOTWALS, JR., M.F.A., <i>Chairman</i> SYLVIA WISDOM KENNEY, PH.D.
ASSOCIATE PROFESSORS:	ROBERT MARTIN MILLER, MUS.M., LIC. DE CONCERT DOROTHY STAHL, B.MUS. †ADRIENNE AUERSWALD, A.M.
ASSISTANT PROFESSORS:	EDWIN LONDON, PH.D. GEORGE THEOPHILUS WALKER, D.M.A. PHILIPP OTTO NAEGELE, PH.D. LORY WALLFISCH
INSTRUCTORS:	GEORGE JAMES BURT, M.F.A. ROBERT EDWIN GRONQUIST, B.MUS., M.A. LYNN CLARKE MEYERS, B.S.
TEACHING FELLOW:	SUSAN FORSCHER, B.A.
LECTURERS:	JAMES LEE FANKHAUSER, B.MUS., M.A. WILLIAM CHRISTIAN SCHULTZ, MUS.B. ERNST WALLFISCH

Students considering a major in music are strongly advised to take 111 in the freshman year.

For the Class of 1967, the courses in music which may be taken to fulfill the distribution requirement in Group B are 113 and 223.

A. Theory and Composition

- 111 *Elementary Course.* Ear training and exercises in two- and four-part writing. M T W 10, W Th F 3:20, W 11 and F 4:20 at the option of the instructor. Miss Smith, Mr Walker, Mr Burt.
- 126a *Musical Acoustics.* One-quarter course credit. Th 2:20-4:10. Mr Josephs. [Physics]

MUSIC

- 221 *Intermediate Course*. Ear training and exercises in writing with linear emphasis. Prerequisite: 111. M T W 2, W Th F 2. Mr Etler; Mr Miller.

[224a, b *Keyboard Harmony*.]

- 231a *Tonal Organization* (formerly 30a). Practice in analytical techniques. Prerequisite: 221. M 3:20-5:10, T 3:20. Mr Etler.
- 233 *Composition in Small Forms*. Prerequisite: 221. Mr Burt.
- 342 *Composition for Small Instrumental Groups*. Prerequisite: 233. Mr Burt.

B. History and Literature

- 113 *An Introduction to Music*. First semester, observation of the elements of music and musical form. Second semester, a consideration of musical styles from the Renaissance to the present. No previous training in music is required. M T 3:20 and a third hour to be arranged for sections. Mr Keppler.
- 223 *General History of Music*. Prerequisite: 111 or 113. W Th F 3:20; required listening Th 11-12:50 or Th 4:20-6:10. Miss Kenney.
- [234a *Beethoven*. Prerequisite: 223 or permission of the instructor. To alternate with 235a. W Th F 3:20. Mr London.]
- 235a *Symphonic Developments in the Nineteenth Century*. Prerequisite: 223 or permission of the instructor. To alternate with 234a. W Th F 3:20. Mr London, Mr Wallfisch.
- 236a *Baroque and Classical Opera*. The Venetian and Neapolitan Schools; Italian opera in Germany and England; operatic reform and comic opera in the eighteenth century. Prerequisite: 111 or 113. M T W 9. Mr Keppler.
- 236b *Nineteenth-Century Opera*. Main trends in Romantic opera with emphasis on Verdi and Wagner. Prerequisite: 111 or 113. M T W 9. Mr Keppler.
- [237a *Solo Song*. Study of representative works from 1800 to 1925. Prerequisite: 111 or 113. M T 2. Miss Smith.]
- 301, 301a, 301b Special Studies in the theory and literature of music. By permission of the Department for senior majors who have had four semester courses above the introductory level.
- 337b *Bach, Handel, and Their Contemporaries*. Prerequisite: 223. M T 11-12:10. Mr Naegele.
- 338a *Haydn and Mozart*. Prerequisite: 223. M T 11-12:10. Mr Gotwals.

MUSIC

- 344b *Seminar in Sixteenth-Century Music.* Prerequisite: 223. Th 11-12:50. Miss Smith.
- [345b *Modern Music.* Prerequisite: 231a. (Open to juniors by permission of the instructor.) M 3:20-5:10. Mr Etler.]
- 346b *Twentieth-Century Music for Theatre.* A study of contemporary operas and ballets. Prerequisite: 231a. To alternate with 345b. W Th F 3:20. Mr London.

GRADUATE

- 401, 401a, 401b Special Studies.
- 450, 450a, 450b Research and Thesis. *May be taken for double credit.*
- [452a *Precedents for Contemporary Procedures.* Open to seniors by permission of the instructor. Alternates with 453a. Mr Etler.]
- 453a *Serialism.* Open to seniors by permission of the instructor. Alternates with 452a. Mr Burt.
- 455a *Seminar in Medieval Music.* Open to seniors by permission of the instructor. Th 11-12:50. Miss Kenney.

Adviser for Graduate Study: Mr Keppler.

C. Practical Music

Courses are offered in the technique and representative literature of the piano, organ, harpsichord, voice, violin, viola, violoncello, viola da gamba, flute, oboe, clarinet, bassoon, and French horn, and in instrumental ensemble and conducting. There are fees for all courses involving individual instruction and for the use of practice rooms. These fees are listed on page 189 of the Catalogue.

Courses in practical music normally require one hour of individual instruction per week. The required minimum of practice time is five hours per week for half-courses and ten hours for full courses.

Introductory level courses in practical music *must be taken above the minimum program and are counted as half-courses.*

Courses of intermediate or advanced level may be taken *within or above the minimum program*, but a student who wishes to continue practical music above the introductory level must take at least one year course or two semester courses from Division A or B before graduation.

No field examination is offered in practical music, and no course examination in this field may therefore be waived.

A minimum grade of C is required for admission to a second year course in practical music.

A minimum grade of B is required for admission to a course above the introductory level.

Before registering for any course in practical music, the student must arrange an audition through the office of the Music Department. Auditions are held in May and September.

STRINGED INSTRUMENTS, WIND INSTRUMENTS. Candidates for these courses will be expected to play a piece of their own choice.

VOICE. Candidates for Music 141 will be expected to sing a song from *The Anthology of Italian Songs and Arias of the Seventeenth and Eighteenth Centuries* (G. Schirmer), or an English song of comparable quality.

PIANO. Candidates for Music 121 will be expected to play three pieces representing different styles in piano literature, one from each of the following headings: (1) a piece by J. S. Bach; (2) an allegro movement from a sonatina or sonata by Clementi, Kuhlau, Haydn, Mozart, or Beethoven; (3) a piece composed after 1825.

ORGAN. The prerequisite for organ courses is Music 121 or its equivalent.

Piano. 121, 122, 222, 323, 424. Mr Duke, Mr Miller, Mr Walker, Mrs Wallfisch.

Organ. 132, 232, 333, 434. Mr Gotwals.

Harpsichord. 202, 303, 404. Prerequisite: 222 or 232, and permission of the instructor. Mrs Wallfisch.

Voice. 141. This course will require two class hours, one half-hour lesson, and four hours of practice per week.

142, 242, 343, 444. Miss Stahl, Mrs Myers.

Violin. 151, 152, 252, 353, 454. Mr Naegele.

Viola. 161, 162, 262, 363, 464. Mr Wallfisch.

Violoncello. 171, 172, 272, 373, 474. Mr Schultz.

Viola da Gamba. 163, 164, 264, 364. Mr Wallfisch.

MUSIC

Wind Instruments. 181, 182, 282, 383, 484. Mr Etler (*Director*), oboe; Mr Pagano, flute; Mr Lynes, clarinet; Mr Hebert, bassoon; Mr London, French horn.

Instrumental Ensemble. 191a, 191b, 192a, 192b, 292a, 292b, 393a, 393b. Open to qualified students who are studying their instruments. These courses require one hour lesson and three hours of practice per week. *One-quarter course credit.* Mr Naegele and Mr Wallfisch, strings; Mr London, winds.

210b *Orchestral Conducting.* Instrumental usage, score-reading and baton technique, applied to the study of a few representative works. Prerequisite: 223, and permission of the instructor. Two class hours. *One-quarter course credit.* W 11-12:50. Mr London.

[220a, 220b *Choral Conducting.* Study of various styles of choral music suitable for secondary schools and small groups. The course will be limited to sixteen students. Prerequisite for 220a; 221 or 223 and permission of the instructor. Prerequisite for 220b: 220a. Two class hours. *One-quarter course credit.* T 4:20-6:10. Mr Fankhauser.]

241b *English Diction for Singers.* Prerequisite: 142. Two class hours. *One-quarter course credit.* Miss Stahl.

THE MAJOR

Advisers: Miss Smith, Mr Gotwals.

Based on 221.

Requirements: Eight semester courses, including the following: 223, 231a, and five additional semesters of intermediate or advanced grade.

Two examinations: one in Field A and one in Field B.

Fields: A. Theory and Composition.

B. History and Literature.

C. Practical Music.

HONORS

Director: Mr Naegele.

Based on 111, 221, 223.

Requirements: students will fulfill the requirements of the major and, in the senior year, present a long paper equivalent to one semester course in the first semester, and participate in the Honors Unit in the second semester.

Three examinations: two in departmental fields, and one special examination.

Honors Unit: Second semester. Miss Kenney.

PHILOSOPHY

PROFESSORS:	ALICE AMBROSE LAZEROWITZ, PH.D., LL.D., <i>Chairman</i> MORRIS LAZEROWITZ, PH.D.
ASSOCIATE PROFESSORS:	MURRAY JAMES KITELEY, PH.D. KENNETH STERN, PH.D.
ASSISTANT PROFESSOR:	ROSALIND EKMAN LADD, PH.D.

The distribution requirement in Group C for the Class of 1967 may be fulfilled by two semester courses chosen from 111a, 111b, 124a, 124b, 233a.

- 111a, 111b *Basic Philosophical Problems*. Reading and discussion of some of the most important classical and modern philosophical works, to introduce the student to such topics as the relation of mind and body, sources of knowledge, freedom and determinism, nature and status of ideas. A different selection of problems in each semester. 111a is *not* a prerequisite for 111b. M T W 9, 10; Th F S 10. Mrs Lazerowitz, Mr Stern.
- 121a *Logic*. Study of formal inference: truth-function techniques, elementary quantification, classes, the syllogism. The course is intended to train the student in effective use of principles of correct reasoning. Th F S 9; M T W 12. Mrs Lazerowitz, Mr Lazerowitz.
- 121b Repetition of 121a. M T W 10, 12. Mr Lazerowitz.
- 122b *Ethics*. Critical introduction to some of the major normative and metaethical theories. Problems concerning utilitarianism, formalism, the nature of goodness, moral knowledge. 111a is a prerequisite for freshmen. Th F 2-3:10. Mrs Ladd.
- 124a *History of Ancient and Medieval Philosophy*. A study of Western philosophy from the early Greeks to the end of the Middle Ages, with emphasis on the pre-Socratics, Plato, Aristotle, the Stoics and Epicureans, and some of the scholastic philosophers. *Not* open to freshmen. M T W 9, 10; Th F S 9. Mr Kiteley, Mrs Ladd.
- 124b *History of Modern Philosophy*. A study of Western philosophy from Bacon through the eighteenth century, with emphasis on Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. 111a is a prerequisite for freshmen. M T W 9; Th F S 9, 10. Mr Kiteley, Mrs Ladd.

PHILOSOPHY

- 230b *American Philosophy*. Philosophical ideas of Edwards, Emerson, Royce, James, Dewey, and others, with attention to the connection of these ideas with current religious, political, and moral views. M 7:30-9:30. Mr Stern.
- 231b *Logic*. Postulate sets and their properties. Quantification theory. Foundations of mathematics and connected philosophical topics. *Not* open to freshmen. Prerequisite: 121a or b. Th 4:20-6:10 and a third hour to be arranged. Mrs Lazerowitz.
- 233a *Aesthetics*. Discussion of problems about art; the nature of art, the nature of aesthetic experience, the role of the critic, and other problems. Th F 2-3:10. Mrs Ladd.
- 234a *Continental Rationalism*. A study of Descartes' works and the writings of his critics from his own time to the present. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b; 236b. M T 2-3:10. Mr Stern.
- [235a *Kant*. A study of special topics in the *Critique of Pure Reason*, with consideration of their influence on later philosophers. Prerequisite: 124a and b. Th 11-12:50. Mr Lazerowitz.
- 236b *Plato*. Study of the major dialogues, with special emphasis on Plato's lasting contributions to philosophy. Given in alternate years. Prerequisite: two semester courses chosen from 111a, b; 124a, b; or permission of the instructor. M 3:20-5:10. Mr Kiteley.
- [237a *Systematic Philosophy*. Study of some systematic view through analysis of the work of a selected philosopher, classical or modern. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b; 236b. Mr Stern.]
- 301, 301a, 301b Special Studies. For senior majors, by arrangement with the Department.
- 311a *Recent and Contemporary Philosophy*. Bradley, Russell, G. E. Moore. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b. Open to sophomores by permission of the instructor. Th 4:20-6:10 and a third hour to be arranged. Mrs Lazerowitz.
- 311b *Recent and Contemporary Philosophy*. Carnap, Austin, Strawson, Quine. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b. Open to sophomores by permission of the instructor. Th 4:20-6:10 and a third hour to be arranged. Mr Kiteley.

PHILOSOPHY

- 312b *Wittgenstein*. Certain views in the *Tractatus Logico-Philosophicus* and in *Philosophical Investigations*. Changes in the techniques of philosophy from Logical Positivism to Linguistic Analysis. Given in alternate years. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b; 236b. T 4:20-6:10. Mrs Lazerowitz.
- 332a *Metaphysics and Language*. Development of a new linguistic technique for the solution of philosophical problems. Its application to a selection of metaphysical theories about time, space, substance, causality and freedom, abstract entities, God. Prerequisite: three semester courses chosen from 111a, b; 124a, b; 231b; 234a; 235a; 236b; 237a; 311a, b; 312b. Th 11-12:50. Mr Lazerowitz.
- [332b *Epistemology*. General explanation of a new linguistic technique for the solution of philosophical problems. Its application to problems about our knowledge of the external world, other minds, rationalism and empiricism, the synthetic a priori. Prerequisite: three semester courses chosen from 111a, b; 124a, b; 231b; 234a; 235a; 236b; 237a; 311a, b; 312b; 333a. Th 11-12:50. Mr Lazerowitz.]
- 333a *Philosophical Topics: Perception*. An examination of selected problems concerning perception; the nature of perception; phenomenalism; sense datum theories; the geometry of appearance; perceptual foundations of knowledge. Prerequisite: two semester courses in philosophy or permission of either instructor. W 7:30-9:10. Mr Kiteley; Mr Clay, University of Massachusetts.
- 333b *Philosophical Topics: Pragmatism*. A critical study of pragmatism in American thought, from its classical representation in the writings of Peirce, James, and Dewey to the present. Prerequisite: two semester courses in philosophy, or permission of either instructor. Th 3:20-5:10. Mr Edward C. Moore, University of Massachusetts; Mr Robin, Mount Holyoke College.
- 340b Directed reading and papers required in the year 1966-67 of seniors majoring in the Department.

See also the Intercollegiate Courses in the History of Science, p. 55.

Graduate

- 450, 450a, 450b Research and Thesis. *May be taken for double credit.*
- 451, 451a, 451b Advanced Studies. By permission of the Department for graduates and qualified undergraduates (e.g., *Theory of Probable Inference*, *Topics in Logical Theory*, *Philosophy of Language*, *Contemporary Ethics*).
- Adviser of graduate study: Mr Lazerowitz.

PHILOSOPHY

THE MAJOR

Adviser: Mrs Ladd.

Based on two semester courses in philosophy.

Requirements: Eight semester courses, including any two from 111a, 111b, 124a, and 124b, unless these are used as the basis of the major.

Two examinations: one in the History of Philosophy (Field 1), and one chosen by the student from one of the other fields.

- Fields: 1. History of Philosophy.
2. Metaphysics, Epistemology, and Logic: Selected Problems.
3. Value Theory (Ethics and Aesthetics).

HONORS

Director: Mr Lazerowitz.

Based on two semester courses from 111a, 111b, 124a, 124b. In addition, 121a or b is advised. For other prerequisites for specific programs, the director should be consulted.

Requirements: a minimum of eight semester courses in philosophy, and two additional semester courses in philosophy or in a related field; a long paper written in the first semester. The work in philosophy shall normally include two units.

Three examinations: one on History of Philosophy (Field 1); one on value theories and methodology; one on some special topic in a departmental field or in a field of some related department.

Units

[*Aesthetics.*]

Ethics. First semester. Mrs Ladd.

British Empiricism. First semester. Mr Lazerowitz.

Philosophical Analysis. Second semester. Mr Lazerowitz.

PHYSICAL EDUCATION

PROFESSOR:	JANE ADELE MOTT, PH.D., <i>Director</i>
ASSOCIATE PROFESSORS:	ANNE LEE DELANO, A.M. EUNICE ELLEN WAY, PH.D. RITA MAY BENSON, M.S. IN H.P.E. ROSALIND SHAFFER DEMILLE, M.A.P.E.
ASSISTANT PROFESSORS:	CARYL MIRIAM NEWHOF, M.S. IN PHY. ED. MARTHA CLUTE, A.M. SHIRLEY JOYCE PERRY, M.S. IN PHY. ED.
INSTRUCTORS:	SYLVIA JANE WILSON, M.S. IN PHY. ED. BARBARA JOYCE PORTER, M.ED. WENDY JOYCE WILLETT, M.S. IN PHY. ED. ROSE MARIE LYON, M.S. IN ED. CHIFRA HOLT, A.B. LINDA K. HALL, B.S. JANET PERLEY HIGGIN, B.S. IN ED. ISABEL HARPER BROWN, A.B. CONSTANCE N. GALT, B.S. CAROL MARGARET JOY, B.S. MARY GRETCHEN SINGLETON, B.S. DEBORAH ZALL, B.S.
LECTURER:	² LILLIAN M. BASTERT, A.M.

The Athletic Association, open to all students, is under the direction of this Department.

A. Physical Education for Undergraduates

Requirements

100a and b and 200a and b are required of all students in the first two years. The level of work may be introductory, intermediate, or advanced depending on the ability, needs, and physical condition of the individual. Repeated failure in these courses may result in the student being requested by the President to withdraw from college.

250a and b for juniors and 350a and b for seniors may be required for any student who falls below a reasonable level of health and physical fitness.

Students enrolled in physical education are required to buy uniform clothing as designated by the Department.

¹A small fee is charged for badminton, golf, sailing, skiing, tennis, and tenpin bowling. The riding fee covers the rental of horses.

PHYSICAL EDUCATION

100a, 100b *Basic Motor Skills, Dance, and Sports.*¹ Three periods of one hour each. Required for freshmen.

Fall Term. One period, basic motor skills; two periods, swimming for those who have not passed the test, for others a choice of the following:

Adapted physical education.

Dance: ballet, folk, and modern.

Sports: archery, canoeing, crew, golf, hockey, riding, sailing, soccer, swimming, tennis, volleyball.

Winter Term. One period, basic motor skills; two periods, swimming for those who have not passed the test, for others a choice of:

Adapted physical education.

Dance: ballet, folk, and modern.

Sports: badminton, basketball, bowling, fencing, riding, skiing, squash, swimming, tumbling and apparatus.

Spring Term. Three periods, swimming and basic motor skills for those who have not passed the tests; for others a choice of:

Adapted physical education.

Dance: ballet and modern.

Sports: archery, canoeing, children's games, crew, golf, lacrosse, riding, softball, swimming, tennis, track and field, volleyball.

200a, b *Dance and Sports.* Three periods of one hour each. Required for sophomores. Each term a choice of sports and dance as listed under the corresponding term for 100a and b.

225a, b, 250a, b Three periods of one hour each. May be required for juniors and seniors. Activities to be selected from those listed under the corresponding terms for 100a and b.

Optional Class and Recreational Opportunities

Non-Credit Participation in Sports and Dance

Freshmen and sophomores may elect classes above the required three hours per week.

Juniors and seniors may elect any class listed under 100a and b, 200a and b, or may enroll in sections limited to upperclassmen.

All students may participate in intramural competition, sports and dance open hours, club activities, and special events such as week-end sailing, outing trips, and horseback rides.

PHYSICAL EDUCATION

Introduction to Teaching Physical Education

Undergraduates interested in coaching sports at the secondary school level or in recreational leadership work, and those who plan to enroll in the graduate course in physical education leading to the M.S. degree may select one or more of the following courses: Physical Education 400a, 405a, 405b, 410a, or 415b. Zoology 101b is a prerequisite for Physical Education 400a, 410a, 415b.

B. Graduate Course for the Preparation of Teachers of Physical Education

Enrollment in the graduate course is open both to students who have majored in physical education as undergraduates and to those who have majored in other subjects. For students who have *not* majored in physical education as undergraduates, the course includes a preliminary year of study. Properly qualified students from Smith and other colleges will be accepted for work toward the degree of Master of Science in Physical Education (M.S. in Phy. Ed.). Two semester courses of zoology, three semester courses of education, and two semester courses in one of the following: chemistry, mathematics, microbiology, nutrition, physics, experimental psychology, zoology should be offered as prerequisites. Smith College students and others who have satisfactorily completed these courses and the equivalent of four of the five Physical Education Courses 400a, 405a, 405b, 410a, 415b may become candidates for the degree in the first year; other students normally require two years.

For further information write to Miss Mott, Scott Gymnasium, for the special booklet describing the course.

400a or b *Adapted Physical Education.* Study of the preventive and corrective phases of physical education and of physical conditions requiring exercise adaptations. Hours to be arranged. Miss Perry.

405a, 405b *The Teaching of Physical Education Activities.* Curriculum materials for the teaching of adapted physical education, basic motor skills, dance, and sports. Supervised teaching. Lectures and practice. Required in the first year of students enrolled in the two-year graduate course. Open to undergraduates by permission of the Director of Physical Education. Prerequisite for 405b: 405a. Hours to be arranged. Members of the Department.

410a *The Anatomy of Movement.* Kinesiology, an analytical study of human motor activity. Two lectures and three hours of laboratory. Prerequisite: Zoology 101b and permission of the Director of Physical Education. Hours to be arranged. Miss Perry.

PHYSICAL EDUCATION

- 415b *The Physiology of Movement*. Physiology applied to human motor activity. Two lectures and three hours of laboratory. Prerequisite: Zoology 101b and permission of the Director of Physical Education. Hours to be arranged. Miss Way.
- 420a, 420b Special Studies. In adapted physical education, administration, current problems, dance, recreation, or other approved topics. Hours scheduled individually. Members of the Department.
- 425a, 425b *The Teaching of Physical Education Activities*. Theory and practice. Continuation of 405a, 405b, offering opportunity to specialize in the teaching of adapted physical education and basic motor skills, dance, or sports. Required of candidates for the master's degree. Hours to be arranged. Members of the Department.
- 430a *Evaluation of Physical Education*. Quantitative and qualitative evaluation of physical education including testing and statistical methods. Hours to be arranged. Miss Mott.
- 435b *Evaluation of Physical Education*. Continuation of 430a. Hours to be arranged. Miss Mott.
- 440a or 440b *Seminar in Administration of Physical Education and Recreation*. The organization and administration of school and camp programs of physical education and recreation; the teaching and supervision of safety education. Hours to be arranged. Miss Mott.
- 445a *Research in Physical Education*. Critical survey of literature, study of research design and techniques, and practice in preparation of research reports. Hours to be arranged. Miss Way.
- 450, 450a, 450b Thesis. One semester required of master's degree candidates. Two semesters optional. Hours to be arranged. Miss Way.
- 455b or 455a *History and Principles of Physical Education*. Hours to be arranged. Mrs Bastert.
- 460a or 460b *Directed Teaching in Physical Education*. Individually arranged. Miss Delano.

PHYSICS

PROFESSORS:	JESS J. JOSEPHS, PH.D., <i>Chairman</i> ADAM HENRY SPEES, PH.D.
ASSOCIATE PROFESSOR:	†MELVIN SANFORD STEINBERG, PH.D.
ASSISTANT PROFESSORS:	WILLIAM BRUCE HAWKINS, PH.D. MICHAEL W. RICE, PH.D.
INSTRUCTOR:	PHEBE HAZEL FERRIS COLLINS, A.M.
TEACHING FELLOW:	MIRJANA NOVAKOVIC, B.S.
LECTURER:	EDWARD PRENOWITZ, A.M.

The offerings of the Department serve as preparation for limited positions in research laboratories, teaching in secondary school science, or graduate study. Those interested in any of these categories should see the adviser for the major, the secondary school teaching adviser, or the graduate study adviser, respectively, during the first half of the junior year, or earlier. Students interested in arranging a program directed toward graduate work in biophysics should see the adviser for the major early in the freshman year.

Students planning to major in physics are advised to elect 115 and a course in mathematics in the freshman year. Students who have taken an introductory course in mathematics or are taking Mathematics 103a or b, or higher are urged to take 115 rather than 111.

Among the courses which may be taken by the Class of 1967 to fulfill the distribution requirement in Division III are 111, 115, and Physical Science 193. These courses will also fulfill the science requirement for classes subsequent to the Class of 1967. (For Physical Science 193, see p. 15).

Prerequisites for all advanced courses: 115, or 111 and 120a, or Physical Science 193 and 120a; Mathematics 203a or b.

- 111 *Fundamentals of Physics.* Introduction to selected phenomena and concepts of physics, including wave motion, dynamics, electricity, and atomic physics. Laboratory sessions will include demonstrations, experiments, and films. The connection between physical observation and theory is emphasized. One two-hour laboratory and three hours of lecture and class discussion per week. Lec. and dis. M T 10-10:50, W 10-11:50; lab. W 2-4:10, Th 11-12:50. Mr Hawkins, Mr Rice.

PHYSICS

- 115 *General Physics*. Basic study of the motion of material bodies, wave motion, and electromagnetism; selected topics in atomic and nuclear physics. Three lectures and one three-hour laboratory period. Prerequisite: Mathematics 104a or b, or the equivalent; open to students taking Mathematics 103a or b. Recommended for students intending to major in a science or in Mathematics. Lec. Th S 10-10:50, F 10-11:50; lab. M T 2-5:10; W 10-12:50, Th 2:20-5:10. Mr Spees, Mrs Collins, Mr Prenowitz.
- 120a *General Physics Problems*. Prerequisite: 111 or Physical Science 193 and an introductory course in mathematics. One class period; a three-hour laboratory period for those entering with 193 only. *One-quarter course credit*. Hours to be arranged. Mr Hawkins.
- 121a, 121b *Modern Physics*. A review of classical concepts of matter and radiation; the particle and wave nature of matter and radiation, atomic structure, structure of solids, nuclear structure, elementary particles. Prerequisite for 121a: 111, 115, or Physical Science 193 (students offering 111 or Physical Science 193 must take 120a concurrently with 121a), Mathematics 104a or b (may also be taken concurrently); for 121b: 121a. Th S 10-10:50, F 10-11:50. Mr Josephs.
- 126a *Musical Acoustics*. Production of musical sound, subjective aspects of musical hearing, pitch, loudness, timbre, the voice, instruments of the orchestra, synthesized and electronic musical sound, acoustics of rooms and auditoria, the recording and reproduction of sound. Lectures illustrated by many experimental demonstrations and slides. *One-quarter course credit*. Th 2:20-4:10. Mr Josephs.
- 222a, 222b *Modern Physics Laboratory*. A laboratory course of experiments in modern physics. One three-hour laboratory period. *One-quarter course credit*. T Th 2-5:10. Mr Spees.
- 230a *Mathematical Techniques Selected for Usefulness in Physical Science*. Vector analysis, calculus of variations, Sturm-Liouville theory, special functions, Fourier transforms, complex integration. Prerequisite: 115 or equivalent. M T W 9. Mr Prenowitz.
- 232a, 232b *Mechanics*. Newtonian dynamics of particles and rigid bodies, relativistic mechanics, Lagrangian and Hamiltonian methods. Waves in a string and in continuous media. Prerequisite for 232a: 115 or equivalent; for 232b: 230a and 232a. M T W 10. Mr Prenowitz.

PHYSICS

- 235a *Electricity*. The laws of electricity and magnetism; introduction to Maxwell's equations; electromagnetic waves. Electrical measurements. Three lectures and occasional laboratory periods. Prerequisite: 115 or equivalent. Lec. M T W 3:20-4:10; lab. M 4:20-5:10; T 4:20-6:10. Mr Rice.
- 235b *Electronics*. A semester of experiments in electronics, using transistors and vacuum tubes leading to some independent work. Prerequisite: 235a. Two three-hour laboratory periods. T 3:20-6:10; Th 2:20-5:10. Mr Josephs.
- 236b *Optics and Spectroscopy*. Geometrical and physical optics, spectra and their origin, the vector model, spectrometers. Two lectures and one three-hour laboratory period. Prerequisite: 121a. Lec. M T 11-11:50; lab. M 3:20-5:10, T 3:20-4:10. Mr Hawkins.
- 301a, 301b *Special Studies*. By permission of the Department for senior majors who have had four semester courses in intermediate physics. Members of the Department.
- 311a, b *Teachers' Course*. A one- or two-semester course for prospective teachers of secondary school physics. Mr Rice.
- 342b *Electrodynamics*. Electromagnetic waves, special relativity and Maxwell's equations, radiation by a point charge. Prerequisite: 235a. M T W 9. Mr Prenowitz.
- 343a, 343b *Advanced Laboratory*. Selected experiments in atomic, nuclear, and solid state physics. Prerequisite: 232b and 235b. Th 2:20-6:10 and two hours to be arranged. Mr Rice.
- 345a *Introduction to Quantum Mechanics*. The formal structure of nonrelativistic quantum mechanics, with solution of some simple problems and an introduction to approximation methods. Prerequisite: 232b and 235a. M T 2-3:10. Mr Hawkins.
- 345b *Modern Physics*. Topics in atomic, molecular, solid state, and nuclear physics, utilizing when possible the theoretical framework developed in 345a. Prerequisite: 345a. M T 2-3:10. Mr Hawkins.
- [347a, 347b *Atomic and Molecular Spectra*. Theory and experiments including applications to other sciences. By permission of the instructor. One lecture and two three-hour laboratory periods.]

PHYSICS

348a *Statistical Physics*. Laws of heat and thermodynamics, kinetic theory of gases, introduction to statistical mechanics. Prerequisite: 232b. Th F S 9. Mr Spees.

See also the Intercollegiate Courses in the History of Science. p. 55.

GRADUATE

450, 450a, 450b *Research and Thesis*. May be taken for double credit. Members of the Department.

451a, 451b Special topics in such fields as physical optics, electricity and magnetism, statistical mechanics, plasma physics, solid state physics, and low-temperature physics. Members of the Department.

452a, 452b Selected problems assigned for investigation, experimental work, and discussion. Members of the Department.

453a, 453b *Principles of Mathematical Physics*.

[459a, 459b *Structure of Large Molecules*. Physics, chemistry, and geometry of biologically active molecules.]

Adviser for graduate study: Mr Hawkins.

Adviser for secondary school teaching: Mr Rice.

THE MAJOR

Adviser: Mr Spees.

Based on 115, or 111 and 120a, or Physical Science 193 and 120a.

Requirements: Ten semester courses, including the following: 121a, 121b, 222a, 222b, 230a, 232a or 236b, 235a, 235b; Mathematics 202a, b, or 203a, b.

Two examinations. One in Introductory Classical and Atomic Physics and one in one of the three other fields listed below. Each examination may be written, or oral, or both.

Fields: Introductory Classical and Atomic Physics.

Electricity and Light.

Mechanics and Methods of Mathematical Physics.

Experimental Physics.

Each student is also expected to receive instruction in shop techniques in a two-hour period for one semester, and to participate in a journal club during the senior year.

PSYCHOLOGY

HONORS

Director: Mr Josephs.

Basis: 115.

Requirements: in addition to the courses required for the major, students must take 450 or 450a or 450b; 452a or 452b is also recommended.

Three examinations. One examination in Introductory Classical and Atomic Physics; one in Experimental or Mathematical Physics; and one in a field of specialization. Each examination may be written, or oral, or both.

PSYCHOLOGY

PROFESSOR:	ELSA MARGAREETA SIIPOLA, PH.D.
ASSOCIATE PROFESSORS:	DILMAN JOHN DOLAND, PH.D., <i>Chairman</i> †JOHN CAMERON HAY, PH.D. BARBARA STEWART MUSGRAVE, PH.D. ROBERT TEGHTSOONIAN, PH.D.
ASSISTANT PROFESSORS:	†J. DIEDRICK SNOEK, PH.D. MARTHA TEGHTSOONIAN, PH.D.
LECTURERS:	GRACE J. CRAIG, M.S. ²DAVID SENN, M.A. ¹PAUL HAROLD SETON, A.B., M.D. FRANCES C. VOLKMANN, PH.D.
RESEARCH ASSOCIATE:	JEAN CARL COHEN, PH.D.

Unless otherwise indicated, 101a is prerequisite for every further course.

Members of the Class of 1967 who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group F/G by taking two semester courses from Section A, following 101a.

Courses listed under Section A count toward the science requirement for the classes subsequent to 1967.

Students who plan to enter social work should consult their major advisers regarding desirable courses.

101a *Introduction to General Psychology.* A survey with emphasis on fundamental principles of human behavior and personality. Two lectures and one two-hour demonstration. M T 9, 10, W 9-10:50; M T 11, 12, W 11-12:50; T W 11, 12, Th 11-12:50; T W 2:20, 3:20, Th 2:20-4:10; Th F 2:20, 3:20, W 2:20-4:10. Miss Siipola (*Director*), Mrs Musgrave, Mr Teghtsoonian, Mrs Teghtsoonian, Mrs Craig.

PSYCHOLOGY

A. Laboratory Courses

- 101b *Introduction to Experimental Psychology.* Application of the experimental method to problems in psychology. Basic experiments in perception, motivation, learning, thinking. Lecture and laboratory, two two-hour periods. M W 9-10:50; M W 11-12:50; M W 2-3:50; T Th 9-10:50; T Th 11-12:50; T Th 2-3:50; F S 8:40-10:20; F S 10:30-12:10. Mr Teghtsoonian (*Director*), Mrs Teghtsoonian, Mrs Volkmann, Mrs Craig.
- 201a *Comparative Psychology.* Experimental study of animal behavior, with emphasis on discrimination, motivation, and modifiability. Prerequisite: 101b. Th F 3:20-5:10. Mrs Volkmann.
- [201b A repetition of 201a.]
- 202b *Experimental Psychology: Visual Perception.* The study of factors influencing the perception of color, space, and motion, with special attention to the influence of learning and motivation. Prerequisite: 101b. M T 11-1. Mrs Teghtsoonian.
- [203b *Experimental Psychology: Social Behavior.* The experimental investigation of factors influencing perception, attitudes, and performance in social situations. Prerequisite: 101b. Th S 10-10:50, F 10-11:50. Mr Snoek.]
- 204b *Experimental Psychology: Human Learning.* The study of conditions influencing the processes of learning and memory; explanations of these processes in terms of current theories of learning. Prerequisite: 101b. Sect. A: W F 3:20-4:10, Th 3:20-5:10; sect. B: Th F 3:20-5:10. Mrs Musgrave.
- 205a *Physiological Psychology.* The neural foundations of human and animal behavior. Emphasis will be placed on sensory and motor systems, and on the physiological bases of emotion, motivation, and learning. Prerequisite: 101b. Th S 10-10:50, F 10-11:50. Mrs Volkmann.

B. Developmental and Child Psychology

- 222a *Educational Psychology.* The educational process considered from the point of view of psychology. The application of psychological principles of development, motivation, and learning to contemporary educational problems. Open only to those who have *not* had 101a. M T W 12. Mrs Musgrave.
- 222b A repetition of 222a for those who have passed 101a. W Th F 2:20. Mrs Musgrave.
- 223a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Th F S 9. Mrs Craig.

PSYCHOLOGY

- 223b A repetition of 223a. M T W 9. Mrs Craig.
- 224b *Psychology of Adolescence*. Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Th F S 9.
- 344a *Child Psychology* (seminar). Selected problems, reports, and discussion. Prerequisite: 223a or b. Th 7:30. Mrs Craig.

C. Personality and Clinical Psychology

- 227b *Psychology of Personality*. Study of the psychological organization of the adult personality, with emphasis on individuality rather than generalized human nature. Basic concepts and theories of psychodynamics and of the development of adult personality-structure. M T W 12, T 11 at the option of the instructor. Miss Siipola.
- 236a *Abnormal Psychology*. A study of neuroses, psychoses, and other personality disorders. Recent clinical and experimental findings will be stressed, particularly as they relate to major conceptions of mental illness. M T W 2:20. Mr Doland.
- 238a *Clinical Psychology*. A survey of methods and procedures used in a clinical setting, including appraisal of capacity, personality evaluation, and therapy. T 10-10:50, W 10-11:50, M 10 at the option of the instructor. Mr Doland.
- 238b *Mental Tests in Clinical Practice*. Supervised practice in administering, scoring, and interpreting standard clinical tests, with major emphasis on the testing of intelligence. A minimum of fifteen hours of practice outside the laboratory. Not open to freshmen. Th F 2-3:20. Mr Doland.
- [346b *Seminar in Advanced Abnormal Psychology*.]
- 347a *Psychology of Personality* (seminar). Intensive study of depth psychology and of projective techniques of investigating personality. Prerequisite: 227b. Th 11-12:50. Miss Siipola.
- 348b *Clinical Study of Children* (seminar). Clinical approaches to the understanding and treatment of the individual child. Areas include: emotional problems of the normal child as well as serious psychopathology; evaluative and therapeutic procedures utilized with children. Some observation in a clinical setting. Prerequisite: at least one of the following, 223a or b, 227b, or 238a. W 10-11:50. Mr Doland.

PSYCHOLOGY

D. Social Psychology

- 225b *Social Psychology*. The study of social behavior considered from a psychological point of view. Topics include: socialization, prejudice, conformity, leadership, and the dynamics of group action. Th 11-12:50, F 12. Mr Senn.
- 229b *Psychology of Language*. A psychological interpretation of language based on empirical research. Topics include the role of grammar in thinking, indices of literary style, word association phenomena, meaning and metaphor, communication theories. Th 10, F 10-11:50. Mrs Musgrave.
- [235a *Psychology of Attitudes and Opinions*. An investigation of factors influencing the formation and change of social judgments. The application of basic research methods of social psychology to this area. Topics include: communication, social conformity, public opinion, reference groups. Mr Snoek.]
- [239a *Industrial Social Psychology*. Analysis of psychological factors relevant to behavior and experience on the job. Topics include: occupational choice, selection and evaluation, satisfaction and performance at work, organizational behavior. Mr Snoek.]
- 345b *Social Psychology* (seminar). Intensive study of group dynamics. Methods, theories, and problems. Reports and discussion. Prerequisite: 225b or permission of the instructor. Th 7:30.
-
- 230a *Theories and Systems in Psychology*. A discussion of some central problems in psychology, including their historical background, theoretical and systematic approaches, and contemporary formulations. M 7:30 or W 7:30. Mrs Teghtsoonian.
- 231a *Statistical Methods in Psychology*. Elementary descriptive and inferential statistics as applied to psychological problems. M T W 12. Mr Teghtsoonian.
- 330a, b *Advanced Theoretical Psychology* (seminar). Critical study of current theories and examination of theoretical issues involved in selected problems. *1st semester* (330a); An Approach to Psychoanalytic Theory. Open to students who have had 227b and have had, or are taking, 230a. W 7:30. Dr Seton. *2nd semester* (330b): Selected Aspects of Contemporary Behavior Theory. Primary emphasis will be on the field of learning. M 3:20. Mr Teghtsoonian.

PSYCHOLOGY

340b Synoptic Course. Th 11-12:50, F 12 at the option of the instructor. Miss Siipola.

341a, 341b Special Studies. By permission of the Department for senior majors who have had four semester courses above the introductory level.

GRADUATE

450a, 450b *Seminar in Current Psychological Problems.*

451a, 451b *Advanced Studies.* In any of the following fields: Perception, Learning, Personality, Physiological, Developmental, Social, or Clinical Psychology.

452a, 452b Research and Thesis. (*May be taken for double credit.*)

Adviser of graduate study: Miss Siipola.

THE MAJOR

Advisers: Members of the Department.

Based on 101a and one other semester course. A student exempted from 101a need take only one semester course.

Requirements: eight semester courses, six in psychology, including 101b and 230a; and two additional courses in psychology or appropriate courses in other departments.

Two examinations: one in general-experimental psychology, the other a field examination in one of the fields listed below.

Fields: Perception, Learning, Personality, Physiological, Developmental, Social, and Clinical Psychology.

HONORS

Director: Mr Teghtsoonian.

Basis: 101b.

Requirements: eight semester courses, including 230a and 231a, and six additional semester courses in the major field, at least four being in psychology; and a long paper equivalent in credit to two semester courses.

Three examinations: one on general experimental and theoretical psychology; one on other fields of psychology; one a more specialized type.

RELIGION & BIBLICAL LITERATURE

PROFESSOR:	² RICHARD PRESTON UNSWORTH, B.D., TH.M.
ASSOCIATE PROFESSORS:	STEN HAROLD STENSON, PH.D. BRUCE THEODORE DAHLBERG, B.D., PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	DAVID BAILY HARNED, B.D., PH.D. JOCHANAN H. A. WIJNHOFEN, PH.D. THOMAS SIEGER DERR, JR., A.B., B.D.
LECTURERS:	AMIYA CHAKRAVARTY, D.PHIL., D.LITT. (HON.) ¹ VIRGINIA CORWIN, B.D., PH.D. ¹ JOHN PEMBERTON, 3RD, B.D., PH.D.

The courses which may be taken by the Class of 1967 to fulfill the distribution requirement are, in Group A, 210a and b; in Group C, 140a and b, 230a and b, 235a and b, 237a, 240a and b, 260a, 270a, 275a.

- 140a *Introduction to the Study of Religion, I.* Teachings of Judaism, Roman Catholicism, Protestantism, and Eastern Orthodoxy. Lec. Th 10. Dis. (for freshmen) M T 11, 12, F S 10; (for sophomores) M T 11, T W 2:20, F S 10. Members of the Department.
- 140b *Introduction to the Study of Religion, II.* Contemporary interpretations of man and his destiny by various exponents and critics of religion: Maritain, Niebuhr, Tillich, Buber, and others. Lec. Th 10. Dis. (for freshmen) M T 11, 12, F S 10; (for sophomores) M T 11, T W 2:20, F S 10. Members of the Department.
- 210a *Introduction to the Bible.* The literature of the Old Testament prophets, law-givers, historians, and poets in classic and modern English versions. The development and implications of literary-historical critical method. M T W 10, 12; Th 10, F 10-11:50. Mr Dahlberg, Mr Wijnhoven.
- 210b *Introduction to the Bible (continued).* Canonical and apocryphal Jewish writings from the Hellenistic period. The literature of the New Testament as portraying the life and work of Jesus Christ, and the rise of the Christian Church. Prerequisite: 210a. M T W 12; Th 10, F 10-11:50. Mr Dahlberg, Mr Wijnhoven.
- [215 *Biblical Hebrew.* Introduction to the Hebrew language. Elements of grammar with readings from narratives of the Old Testament. Offered in alternate years. Mr Wijnhoven.]

RELIGION & BIBLICAL LITERATURE

- [225a *Life and Teaching of Paul*. Prerequisite: 210b, or by permission of the instructor. Offered in alternate years. Th 4:20-6:10. Mr Dahlberg.]
- 230a *History of Christian Thought through the Middle Ages*. The early church fathers, Augustine, and early medieval theology. M T W 10. Mr Harned.
- 230b *History of Christian Thought since the Middle Ages*. Thomas Aquinas. The formative period in Protestantism. Development of Catholic thought. Key figures and movements to the present. M T W 10. Mr Harned.
- 235a *Jewish Thought*. Biblical origins. Encounter with the Hellenistic world; split with Christianity. Formation of Talmudic Judaism. Jewish literature, philosophy, and mysticism under Islam and in Christian Europe. Impact of the Renaissance and Reformation. The Sabbathian movement. M T W 9. Mr Wijnhoven.
- 235b *Jewish Thought*. Moses Mendelsohn; enlightenment and Judaism. Hasidism. The Jewish emancipation and liberalism. The rise of Reform. Zionism and modern anti-Semitism. Rosenzweig, Buber, and contemporary trends in Judaism. M T W 9. Mr Wijnhoven.
- 237b *Religion in America*. Religious thought and institutions, and their influence on American culture. M T W 12. Mr Derr.
- 240a *Contemporary Religious Thought*. Religion and the critics of religion in the nineteenth and twentieth centuries. Reinterpretations of faith. Readings selected from Schleiermacher, Hegel, Marx, Freud, Kierkegaard, von Balthasar, Bonhoeffer, Barth, and others. M T 2-3:10, W 2:20 at the option of the instructor. Mr Pemberton.
- [240b *Contemporary Religious Thought*. The doctrine of God in contemporary theology. The relation of the knowledge of God to self-knowledge. Readings selected from Bultmann, Richard Niebuhr, Tillich, neo-Thomists, Rahner, Berdyaev, Lossky, and others. M T 2-3:10, W 2:20 at the option of the instructor.]
- [245b *Theology of Culture*. The creative act as religious affirmation and protest. The relation of belief to literature with illustrative readings from the contemporary period. Mr Harned.]
- 250a *Religion and Social Responsibility*. Religion as the basis for social ethics. Natural law and situational morality. The norms of love and justice, examined in the sphere of family, marriage, and divorce, the population explosion, and race relations. M T W 3:20. Mr Derr.

RELIGION & BIBLICAL LITERATURE

- 250b *Religion and Social Responsibility.* The bearing of ethical insights on the understanding of the state, on democratic and Marxist approaches to government, the economic order, and international affairs. Pacifism and the just war; civil disobedience; religious liberty. M T W 3:20. Mr Derr.
- 260a *Philosophy of Religion.* Major types of traditional philosophies of religion. Emphasis on the problems of religious knowledge and traditional philosophical responses to them. Th F 2-3:10. Mr Stenson.
- 260b *Philosophy of Religion.* Contemporary problems and proposed solutions in the philosophy of religion. Analysis of religious language, phenomenology of religion, the nature of myth. Th F 2-3:10. Mr Stenson.
- 270a *Hinduism and Buddhism.* Their philosophical and popular teachings about the divine, the world, and man in the periods of greatest influence in India, China, and Japan. Ritual observances, and methods of inner personal development. Modern thinkers and movements. Th 11-12:50, F 12. Miss Corwin.
- 271a *Nineteenth-and Twentieth-Century Hinduism.* The reform movements, the Brahmo and Arya Samajes; the traditional Hindu mysticism, as in Ramakrishna and Ramana Maharshi; the renaissance under Vivekananda; the integral philosophy of Aurobindo. M T W 12. Mr Chakravarty.
- 273b *The Ethics and Religious Philosophy of China.* Classical Confucianism and Taoism. Neo-Confucianism and its Buddhist background. M T W 12. Mr Chakravarty.
- 275a *Islam.* The formative period: Muhammed, the Quran, the law. The medieval mystics and philosophers. The role of Islam in the Middle East, among primitive cultures, and in India. Muslim reform and tradition in the modern world. Th F 8:40-9:50, S 9 at the option of the instructor. Miss Corwin.
- 300b *Review of Problems in Religion* (formerly 40b). Readings and discussions. Hours to be arranged. Members of the Department.
- 301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had four semester courses above the introductory level.
- 310b *Old Testament Theology (seminar).* A critical examination of ancient Hebrew conceptions of the divine-human relation seen in the literature of history, myth, and ritual in the Old Testament, with particular focus on one of the following works: Genesis, Isaiah 40-55, or Job. In 1966-67: Job. Prerequisite: 210a or by permission of the instructor. Th 4:20-6:10. Mr Dahlberg.

RELIGION & BIBLICAL LITERATURE

- [313a *The Individual in the Bible (seminar)*. Problems of his self-understanding and obedience to vocation. His search for reconciliation with God and his fellows. Based on selected readings from the Bible and from modern descriptive Biblical theologians. Th 4:20-6:10. Mr Dahlberg.]
- 315a *Hebrew Religious Texts*. Readings with introduction and discussion of Hebrew texts from the Prophets, the Dead Sea Scrolls, and the Mishnah. Prerequisite: 215 or by permission of the instructor. To alternate with 215. W 7:30. Mr Wijnhoven.
- 315b *Hebrew Religious Texts*. Selections from medieval Jewish philosophy, mysticism, and poetry (Maimonides, Judah ha-Levi, and others). Prerequisite: 215 or permission of the instructor. To alternate with 215. W 7:30. Mr Wijnhoven.
- 320a *Jesus in the Gospels (seminar)*. A study of his teaching and mission based on the first three gospels. Prerequisite: 210b or by permission of the instructor. To alternate with 225a. Th 4:20-6:10. Mr Dahlberg.
- [327b *Greek New Testament*. Prerequisite: Greek 111, or the equivalent. Hours to be arranged.]
- [330b *Historical Theology (seminar)*. A study of selected men and movements in Christian history. Topic for 1966-67: The Radical Reformation of the Sixteenth Century: Evangelical Rationalists, Spiritualists and Anabaptists. Utopian and mystical trends. M 7:30. Mr Harned.]
- [340a *Problems in Theology (seminar)*. A contemporary restatement of man as creature, man as sinner, the mystery of his suffering, and images for the work of salvation in Christian thought. T 4:20-6:10 and a third hour to be arranged.]
- [350a *Christian Ethics (seminar)*. Study of good and evil in Biblical literature and later Christian ethical thought: Augustine, Aquinas, Calvin, and some contemporary thinkers.]
- 360a *Existentialism and Theology (seminar)*. Contemporary existentialism in relation to religious thought. By permission of the instructor. Th 7:30. Mr Stenson.
- 370a *Readings in Indian Scriptures*. Selected texts from the Vedas and Upanishads, Vedantist writings, and Vaishnava lyrics. Discussion of the metaphysical concepts, symbols, and imagery in Indian spiritual literature. W 7:30. Mr Chakravarty.

RELIGION & BIBLICAL LITERATURE

371b *Studies in Rabindranath Tagore and Gandhi.* Their distinctive religious views, and the resulting interpretations of nationalism, education, and Western culture. W 7:30. Mr Chakravarty.

See also the intercollegiate History of Science course, 397b, p 55.

GRADUATE

[400b *The Grounds for Theological Judgment.* The distinction between theology and other disciplines; its relation to Biblical hermeneutics; the interrelationships between method and content in theological construction.]

480a, 480b Advanced Studies.

485, 485a, 485b Research and Thesis. *May be taken for double credit.*

Adviser of graduate study: Mr Dahlberg.

THE MAJOR

Advisers: Mr Stenson, Mr Dahlberg, Mr Wijnhoven, Mr Derr.

Based on 140a, b; or 210a, b; or an alternative basis of two semester courses by permission of the Department.

Requirements: Eight semester courses, including 210a and b, two semesters in the origins and development of western religious thought, and four additional semester courses.

Courses in related departments may be included in a major program of eight courses only with the approval of the departmental adviser.

Examinations: A general examination in the major, and a special examination in one of the fields listed below. Preparation for the special examination will include at least two semester courses in a given field, in addition to independent reading.

Fields: Biblical Studies: 210a, b; 225a; 310b; 313a; 315a; 320a; 327b.

Judaica: 235a, b; 315a, b.

History of Christian Thought: 230a, b; 237b; 240a; 330b.

Asian Religions: 270a, 275a; in 1966-67: 271a, 273b, 370a, 371b.

Ethics 250a, b; 350a.

Contemporary Theology: 240a, b; 245b; 340a; 360a.

Philosophy of Religion: 260a, b; 360a.

Textual Studies: 215; 315a, b; 327b.

RELIGION & BIBLICAL LITERATURE

HONORS

Director: Mr Harned.

Basis: 140a, b, or 210a, b. An alternative basis of two semester courses requires departmental approval.

Requirements: Eight semester courses, including 210a, b; two semester courses in the origins and development of western religious thought; four additional semester courses in Religion or related fields; and a long paper equivalent to two semester courses in the semester in which it is written (normally the first semester of the senior year). Work in related departments included in the Religion honors program must be approved by the Director.

Units will be conducted by means of regular conferences and special reading, and will often be planned in conjunction with existing courses.

Three examinations: a general examination in the major; a special examination in the field of concentration; an oral examination on the senior essay as it relates to the major.

Preparation for the first two examinations is similar to that prescribed for all major students.

Units

First Semester

Religion, Ethics, and Society. Mr Derr.

History of Religions. Miss Corwin.

History of Christian Thought. Mr Harned.

Judaism. Mr Wijnhoven.

Second Semester

Philosophy of Religion. Mr Stenson.

Contemporary Religious Thought.

Studies in the Old Testament. Mr Dahlberg.

RUSSIAN LANGUAGE & LITERATURE

PROFESSOR:	HELEN MUCHNIC, PH.D.
ASSISTANT PROFESSORS:	IGOR ZELLJADT, M.A., CAND.PHIL., <i>Chairman and Director of Language Studies</i> MARIA BANERJEE, PH.D.
INSTRUCTOR:	HÉLÈNE PALÉOLOGUE, LIC. ÈS. L., M.A.
LECTURER:	NATALIJA KUPRIJANOW, LEHRERDIPLOM

Russian 233 (33) will fulfill for the Class of 1967 both the foreign language and the distribution requirement in Group A. 126a and b, 235a and b, or 236a may be taken to fulfill the Group A distribution requirement only. 111D or 121 will fulfill the language requirement for classes subsequent to 1967.

A. Language

- 101 *Introductory Course.* Five hours. (Three class hours and two hours of conversation and laboratory.) M T W 2:20; Th F S 10; and two hours to be arranged. Members of the Department.
- 111D *Introductory Course.* An intensive course covering the work of two years. Seven hours (five class hours, two laboratory hours). M T W Th F 2:20 and two hours to be arranged. *Three semesters' credit.* Mrs Kuprijanow. (L)
- 121 *Introductory Course.* Selections from Russian prose and poetry. General grammar review. Prerequisite: 101 or the equivalent. M T W 9, Th F S 9, and one hour to be arranged. Members of the Department. (L)
- 231 *Intermediate Course.* Readings and discussion of texts taken from classical and Soviet literature, as well as current journals. Intensive practice in writing. Prerequisite: 121 or 111D with the permission of the instructor. M T W 12; W Th F 3:20. Mrs Kuprijanow. (L)
- 238a *Literary Analysis of Selected Works of Russian Literature.* Prerequisite: 231 or 233. Hours to be arranged. Miss Paléologue. (L)
- 238b *Literary Analysis of Selected Works of Russian Literature.* Prerequisite: 238a. Hours to be arranged. Miss Paléologue. (L)

RUSSIAN LANGUAGE & LITERATURE

- 343b *Seminar in the History of Slavic Languages.* A survey of the origin and development of the Slavic languages, their sounds, vocabulary, and grammatical forms from the beginning to the present. Lectures and analysis of selected, illustrative texts. Prerequisite: 231 or the equivalent, or permission of the instructor. Hours to be arranged. Mr Zelljadt.

B. Literature

- 126a *History of Russian Literature.* From the beginnings to Pushkin. In translation. M 10, W 10-11:50. Mrs Banerjee.
- 126b *History of Russian Literature.* From Pushkin to Turgenev. In translation. Prerequisite: 126a. M 10, W 10-11:50. Mrs Banerjee.
- 233 *Literature of the Nineteenth Century.* Development of Russian realism. Study of some typical works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov, with discussion of important trends in social and aesthetic ideas which they represent. In Russian. By permission of the instructor. Prerequisite: 231, or the equivalent. M 7:30. Mr Zelljadt.
- 235a *Tolstoy.* In translation. M 3:20-5:10, T 3:20-4:10. Miss Muchnic.
- 235b *Dostoevsky.* In translation. M 3:20-5:10, T 3:20-4:10. Miss Muchnic.
- 236a *Russian Drama.* In translation. Study of the masterpieces of the Russian theatre from the beginnings to recent years, with emphasis on Gogol, Ostrovsky, and Chekhov. M T W 2:20. Mrs Banerjee.
- 301, 301a, 301b *Special Studies in Language or Literature.* By permission of the Department for senior majors who have had four semester courses above the introductory level.
- 337 *Russian Literature from 1880 to 1917: Modernism, Decadence, Symbolism.* In translation. Prerequisite: 126b or one intermediate semester course in Russian literature. M 11-12:50, T 11-11:50. Mrs Banerjee.
- 340b *History of Russian Thought.* In translation. Prerequisites: History 233a and 247b and one intermediate semester course in Russian literature. Hours to be arranged. Mrs Banerjee.

RUSSIAN LANGUAGE & LITERATURE

342b *Seminar in Soviet Russian Literature*. In translation. Poems, plays, and novels of selected Soviet authors considered as works of literary art and as illustrations of the social, economic, and political conditions of the period. Prerequisite: 126b or one intermediate semester course in Russian literature. T 4:20-6:10. Miss Muchnic.

346a *Pushkin and His Age (seminar)*. Conducted in English; reading in Russian. Prerequisite: three years of Russian or the equivalent, and by permission of the instructor. Hours to be arranged. Miss Muchnic.

450, 450a, 450b Research and Thesis.

451, 451a, 451b Advanced Studies. Arranged individually.

Adviser of graduate study: Miss Muchnic.

THE MAJORS

PLAN A: RUSSIAN LITERATURE

Adviser: Mr Zelljadt.

Based on 121.

Requirements: Nine semester courses, including the following: 126a, 126b, 233, 235a, 235b, 340b, History 233a, 247b.

Two examinations: a field examination; and one in Russian language and literature.

Fields: Development of Russian Literature, 1800-1880.

Development of Russian Literature, 1880-1917.

Development of Russian Literature, 1917 to the present.

Russian Literature of the 19th Century: The Novel.

Russian Literature of the 19th Century: The Drama.

Russian Literature of the 19th Century: Main Currents in relation to Europe and America.

Russian Language (this examination to be taken in the junior year).

Russian Civilization: History.

Russian Civilization: History of Ideas.

Russian Civilization: Government.

Russian Civilization: Economics.

PLAN B: RUSSIAN CIVILIZATION

Adviser: Mr Zelljadt.

Based on 101 and History 103a, 104b.

RUSSIAN LANGUAGE & LITERATURE

Requirements: Ten semester courses, including the following: 121, 126a, 126b, 235a, 235b, 340b; Economics 209a or Government 221a or 322b; and History 233a, 247b.

Two examinations: One to be taken in one of the fields listed under the major: and one in Russian literature of the nineteenth century.

HONORS

Director: Miss Muchnic.

Prerequisites: 121, 126a, 126b.

Requirements: Ten semester courses including the following: 233, 235a, 235b; History 233a, 247b; and at least four semester courses in units and seminars in the Department or in other departments within the area of concentration; a long paper to count for one semester course to be written in the first semester.

Examinations: (1) on Russian literature; (2) on Russian history; (3) in a departmental field; (4) in language, with translation from Russian into English, and from English into Russian, and a brief composition in Russian.

For students who choose honors in Russian civilization, an appropriate course in government or economics will be substituted for Russian 233 and the examination in language will be omitted.

SOCIOLOGY & ANTHROPOLOGY

PROFESSORS:

†NEAL BREAULE DENOOD, PH.D.

ELY CHINOY, PH.D., *Chairman*

ASSOCIATE PROFESSOR:

PETER ISAAC ROSE, PH.D.

ASSISTANT PROFESSORS:

ELAINE CATHERINE HAGOPIAN, PH.D.

MYRON GLAZER, PH.D.

ELIZABETH ERICKSON HOPKINS, M.A.

LECTURERS:

¹JANET L. ABU-LUGHOD, PH.D.

¹BEAU FLY JONES, M.A.

MARY K. KEELEY, M.S., Associate Professor of Social Work, Smith College School for Social Work

Students planning to major or to enter the honors program in the department are advised to take courses in one or more of the following fields: economics, government, history, philosophy, and psychology.

Students who plan to enter the field of social work should consult Miss Keeley regarding desirable courses.

The prerequisite for all intermediate and advanced courses is 101a or 101b, or permission of the instructor, unless otherwise indicated.

Among the courses which may be taken by the Class of 1967 to fulfill the distribution requirement in Group E are 101a and either 102b or 130b.

GENERAL COURSES

- 101a *Introduction to Sociology and Anthropology.* Society, culture, and human behavior. Major institutions and forms of social organization, with principal emphasis on American society: family, classes and ethnic groups, bureaucracy, property, power, religion, community. Lec. M 10. Sect. T W 10, 12, 3:20; Th F 10. Members of the Department. Mr Rose (*Director*).
- 101b Repetition of 101a. M T W 10. Mr Glazer.
- 102b *Industrial Society.* Comparative and historical analysis of culture, social structure, and institutions in industrial societies, with material drawn chiefly from Great Britain, the Soviet Union, and the United States. The role of education, science, and the mass media. Problems of work and leisure. M T W 10. Mr Chinoy.

SOCIOLOGY & ANTHROPOLOGY

- 201a *Methods of Social Research.* The logic and methods of social research and research techniques; their application to a specific project of current interest. Limited to twenty students. M 7:30-9:30 and one hour to be arranged. Mr Rose.
- 214b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Open by permission of the instructor. M T W 9. Mr Mair [Economics].
- 301a, 301b *Special Studies.* By permission of the Department for senior majors in the department.
- 303b *Seminar in Structure and Change in Modern Society.* Selected problems in the analysis of social stratification, elites, bureaucracy, and mass society. By permission of the instructor. M 3:20-5:10. Mr Chinoy.
- 310a *Selected Sociological Theories.* Critical analysis and application of theories of Durkheim, Sumner, Simmel, Cooley, Weber, Thomas, and Znaniecki. Not open to sophomores. M T W 9. Mrs Abu-Lughod.
- 310b *Problems of Scope and Method.* Theory and research in contemporary sociology and anthropology. For seniors majoring in the department. Th 4:20-6:10. Mr Rose.
- 401b *Contemporary Sociological Theory.* Selected topics: functionalism, social systems, role theory, reference groups, equilibrium and conflict, the place of values in sociology. Open to undergraduates by permission of the instructor. T 4:20-6:10. Mr Chinoy.

AMERICAN SOCIETY

- 210a *The City.* Problems of urban and metropolitan growth; neighborhood organization, slums, and suburbs. City planning and urban renewal. M T W 10. Mr Chinoy.
- 211a *Social Disorganization.* Theory of social disorganization; delinquency, crime, and related problems. Open also to students who have passed Psychology 111a. M T W 12. Mrs Jones.
- 211b *Social Disorganization.* Family disorganization, social aspects of mental health, and related problems. Open also to students who have passed Psychology 111a. M T W 12. Mr Glazer.

SOCIOLOGY & ANTHROPOLOGY

- 212a *Class Structure in American Society.* Analysis of the American class system, with particular emphasis on the nature and role of the middle class. The social and political consequences of economic stratification, status systems, and social mobility. M T W 12. Mr Chinoy.
- 213b *Minorities in America.* Social organization of a multi-racial and ethnically diverse society. Cultural and political problems in racial and ethnic relations. Racial nationalism. Internal organization of minorities in different settings. Th 11-12:50; F 12. Mr Rose.
- [215b *The Sociology of Social Planning.* Study and analysis of social planning in health, education, recreation, welfare, housing, and community reorganization. Emphasis on twentieth-century developments in the United States. Mr DeNood.]
- 216a *Social Work in the American Community.* Development and theory of modern social services: the basic processes: casework, group work, and community organization. Prerequisite: the introductory course in economics, government, psychology, or sociology. Th 10, F 10-11:50. Miss Keeley.
- [304a *Seminar in Social Disorganization.* Theories of social disorganization and their application to selected problems of crime and delinquency, family disorganization, and the social aspects of mental health. By permission of the instructor. Mr DeNood.]
- 305a *Seminar in Subcultures and Social Movements.* Topic for 1966-67: Protest Movements. By permission of the instructor. T 4:20-6:10. Mr Rose.

HISTORY AND SOCIAL SCIENCE 395b. *Interdepartmental Seminar in Economics, Government History, and Sociology.* Topic for 1966-67: the Negro in America. By permission of the instructor. W 7:30. Mr Rose, Mr Leo Weinstein [Government], Mr Elkins [History].

COMPARATIVE SOCIAL STRUCTURE

- 130b *Cultural Anthropology.* The conceptual and methodological premises of anthropology. The nature of culture. Factors in uniformity and variation in economic, political, social, and ideological systems. Problems of integration and change. Lec. Th F 3:20; sect. Th 4:20, F 4:20. Mrs Hopkins.
- 221a *Culture Contact and Change.* Theories of evolution and change; imperialism, colonialism, and the emergence of new nations; problems of modern society formation; the role of elites and ideology. Cases selected from Africa and the Middle East. By permission of the instructor. M T 2-3:10. Miss Haggopian.

SOCIOLOGY & ANTHROPOLOGY

- 222b *Culture Contact, Revolution, and Reaction.* Intensive case studies of the emergence of new nations, focused on Latin America. Influence of the United States and other countries on patterns of development. M T 2-3:10. Mr Glazer.
- 223a *Contemporary Latin American Society.* Social structure and social change in Latin America, particularly Mexico, Cuba, Peru, Brazil, Chile, and Argentina. The role of elites, the middle class, workers, peasants, and intellectuals; institutions affecting the role of these groups and their relations to each other. Open also to students who have passed History 285a. M 3:20-5:10; T 3:20. Mr Glazer.
- 224b *Family and Society.* Structure and function of the family in various societies. Courtship, marriage, and family life in American society. M T W 9. Miss Hagopian.
- 230a *Ethnology of the Americas.* Survey of the major regional and cultural divisions of North and South America, with intensive analysis of tribes selected to illustrate the range of economic, political, and social institutions, and the relevance of ecological and historical factors. Th 3:20, F 3:20-5:10.
- 231a *Ethnology of Africa.* Survey of the major regional and cultural divisions of sub-Saharan Africa, with intensive analysis of tribes selected to illustrate the range of economic, political, and social institutions, and the relevance of ecological and historical factors. Th 10, F 10-11:50. Mrs Hopkins.
- [232a *Folklore.* Traditional forms of folk expression (folktale, fairy tale, folksong, myths, legends, and proverbs) in their social and cultural setting. History and development of folklore analysis. Different approaches to folklore. Folklore in mass society. Children's culture as folklore.]
- 233b *Law and Political Organization in Primitive Society.* Theories of social control in stateless societies. Factors in the emergence of formal legal and political institutions, and in state formation and expansion. Th 10, F 10-11:50. Mrs Hopkins.
- [234b *Religion and Society.* Relation of religious organization and beliefs to social and cultural factors. Major sociological and anthropological interpretations of magic and religion. Selected problems in primitive and higher religions.]
- 235a *Cultural Evolution.* Physiological, social, and environmental foundations of culture: cultural development from its initial appearance through the rise of primary forms of urbanization and state formation in the Near East. Th 7:30. Mrs Hopkins.

SOCIOLOGY & ANTHROPOLOGY

320b *Seminar in Culture and Society in the Middle East.* Selected aspects of culture and society in the Middle East in their traditional and contemporary contexts. By permission of the instructor. M 7:30. Miss Hagopian.

451a, 451b Special Studies in such subjects as advanced theory, social organization and disorganization, culture contacts, problems of scientific methodology.

THE MAJOR

Advisers: Mr Chinoy, Mr Glazer, Miss Hagopian, Mr Rose.

Based on: 101a or 101b and either 102b or 130b.

Requirements: Ten semester courses including 310a, 310b and at least six other semester courses in the Department: a minimum of four to be taken in the field of the student's optional examination, and at least one in the other optional field; the remaining two may be taken in the Department or in related departments.

Two examinations: One in General Sociology and another in either American Society or Comparative Social Structure. Students electing the examination in Comparative Social Structure may concentrate their work in Anthropology (130b, 230a, 231a, 232a, 233b, 234b).

Fields: General Sociology
American Society
Comparative Social Structure

Majors may spend the junior year abroad if they meet the College requirements. Students planning to major in the Department and spend the junior year abroad should take at least one, preferably two, semester courses in the major during the sophomore year.

Adviser of graduate study: Mr Chinoy.

HONORS

Director: Mr Rose.

Requirements: Eight semester courses, including 310a (preferably taken in the junior year), 401b, and at least six additional semester courses in the Department and in related fields; and a long paper counting for two semesters' credit in the first semester of the senior year.

Three examinations: The general examination, one of the regularly scheduled field examinations, and one special examination.

SPANISH AND PORTUGUESE LANGUAGES AND LITERATURES

See Hispanic Studies, p. 129

THEATRE AND SPEECH

ASSOCIATE PROFESSORS:	DENTON M. SNYDER, M.A. WILLIAM EDWARD HATCH, M.A. CHARLOTTE H. FITCH, A.M., <i>Director of Speech</i> ROSALIND SHAFFER DEMILLE, M.A.P.E. JOHN GORDON FISHER, M.F.A., <i>Chairman</i>
INSTRUCTORS:	CHIFRA HOLT, A.B. DOROTHY MYRICK RANDALL, M.A.
LECTURERS:	HELEN KRICH CHINOY, PH.D.

For the Class of 1967 courses in Theatre which may be taken to fulfill the distribution requirement are, in Group A, 211a and b, 212a and b and, in Group B, 111a and b.

A. Historical and Theoretical Courses

- 111a *Drama in Performance.* Introduction to theatre as an art and social institution; analysis of the place and the occasion, the player, the director, the critic, and the audience. M T W 10, W 11 at the option of the instructor. Mrs Chinoy.
- 111b *Dramatic Forms and Theatrical Styles.* Introduction to dramatic method, forms of drama, and styles of theatre art. M T W 10, W 11 at the option of the instructor. Mrs Chinoy.
- 211a *History of the Drama and Theatre.* The development of plays and theatres from Aeschylus to Shakespeare. M T 2-3:10. Mrs Chinoy.
- 211b *History of the Drama and Theatre.* The development of plays and theatres from Corneille to Ibsen and Chekhov. M T 2-3:10 Mrs Chinoy.
- 212a,b *Modern European Drama.* The plays, theatres, playwrights and performers of the twentieth century in Europe. First semester: From Ibsen and Chekhov to World War 2. Second semester: The war to the contemporary scene. Attendance at selected plays will be required. M T W 9. Mr Fisher.
- 213b *American Theatre and Drama.* Evolution of an American style in theatre art and development of American drama, especially from 1914 to the present. Th 11-1, F 12-1. Mrs Chinoy.

THEATRE & SPEECH

311a *Seminar in Theatre Criticism.* Historical and analytical review of major theories and theorists dealing with dramatic literature and the theatre arts. Th 11-12:50. Mrs Chinoy.

312a,b *Masters of Theatre.* Seminar on a major figure in drama. Topic for 312b: O'Neill. W 2-4:10. Mr Fisher.

B. Theatre Practice

121a *Introduction to Dance.* Elements of dance, mime, and stage movement. *One-quarter course credit.* Th 2. Mrs deMille.

121b Repetition of 121a.

122b *Improvisational Dance.* Experimental exercises in improvisation; individual and group studies in dynamics, rhythm, and design geared to making the dancer aware of and responsive to all the possibilities of movement. Prerequisite: 121a. Th 11-12:50, plus three studio hours. Miss Holt.

221a, b *Technique and Dance Composition.* Prerequisite for 221b: 221a. Th F S 9. Miss Holt.

222a *History of Dance.* A survey with practice in selected period forms. Lec. T W 2; studio hours to be arranged. Mrs deMille.

223b *Choreography.* Advanced course designed to emphasize individual and group creative expression through the medium of modern dance. Technique, original composition, and production. Prerequisite: 222a or 221a and b. six studio hours, T W 2; practice hours to be arranged. Mrs deMille.

241a, b *Acting.* Exercises in concentration, imagination, and observation in the study of the actor's approach to a role. Prerequisite for 241b: 241a. M T 11-11:50, W 12 at the option of the instructor. Mr Synder.

242a, b *Performance.* An advanced acting course concerned with the problems of theatrical performance and technique. Prerequisite: 241b or permission of the instructor. M 3:20-5:10, T 3:20-4:10. Mr Fisher.

*251a *Mounting the Play.* A study of general structural features of theatres that bear on the problems of mounting plays and the fundamental techniques and methods of production. M T W 9. Mr Hatch.

THEATRE & SPEECH

- *252a *Scene Design I*. A study of pictorial organization for the support of action and characterization in the production of plays with emphasis on designing the space, the lighting, the costumes, and the decor. Prerequisite: 251a or permission of the instructor. M T 10, W 10-11:50. Mr Hatch.
- *253b *Stage Lighting and Recorded Sound*. The design of stage lighting and application of the principles of light, color, illumination, and electricity to the stage. The theory and application of stage make-up, and the influence of stage lighting on make-up. The problem of sound in the theatre: the construction of sound effects, a study of sound systems, and the use of recordings and sound consoles. M T W 9. Mr Hatch.
- 261a, b *Writing for the Theatre*. A course in the means and methods of the playwright and the writer for television and the cinema. Analysis of the structure and dialogue of a few selected plays. Exercises in writing for various media. Plays by students will be considered for production. By permission of the instructor. Hours to be arranged. Mr Fisher.
- [271a *Radio*. History, principles, and techniques of radio production. Practical experience in selected types of radio programs, and in the use of recorded sound in other dramatic mediums.]
- [271b Repetition of 271a.]
- 341a, b *Directing*. The study and application of directorial techniques: dramatic interpretation, movement and grouping, stage business, casting and rehearsal. Prerequisite for 341a: a semester of acting or a semester of design; for 341b: 341a or permission of the instructor. Th 10-10:50, F 10-11:50, S 10 at the option of the instructor. Mr Snyder.
- 342 *Presentation*. A general study of the art of theatrical presentation. The first semester consists of preparatory studies for special projects to be undertaken during the second semester. Prerequisites: a semester of acting and a semester of design or mounting the play, or by permission of the Department. Members of the Department.
- *352b *Scene Design II*. An advanced study of the subjects described in 252a. Prerequisite: 252a or permission of the instructor. M T 2-3:10. Mr Hatch.

*Six hours of laboratory work per week will be required in conjunction with major productions.

THEATRE & SPEECH

C. Speech

- 131a *Voice Theory and Practice.* The historical, physiological, and phonetic bases of speech. Intensive work on the improvement of the individual speaking voice. Projects in various forms of oral communication. Individual conferences and recordings. M T W 9. Miss Fitch.
- 131b Repetition of 131a. M T W 9. Miss Fitch.
- 231a *Voice Training.* A laboratory course adapted to individual voice and articulatory needs. Voice recordings. Open to freshmen by permission of the instructor. *One-quarter course credit.* M T 12. Miss Fitch.
- 231b *Voice Training.* *One-quarter course credit.* M T 12. Miss Fitch.
- 232b *Oral Interpretation of Literature.* Principles and techniques of oral interpretation. Study and oral presentation of selected literary forms. Recommended background: 131a or b. Th 10, F 10-11:50.
- 235a *Play Reading.* Theory and techniques of play reading as an art form. Study and presentation of selected plays from world drama. Recommended background: preferably 232b. Th 10, F 10-11:50. Miss Fitch.
- 331b *Speech for the Classroom Teacher.* The development of speech in the child, problems of defective speech, speech arts in the classroom, and the speech of the teacher. Voice recordings. Th F 2-3:10. Miss Fitch.
- 332a *Oral Interpretation of Children's Literature.* A critical study of children's literature. The techniques of its oral interpretation. Practical experience in story-telling, reading aloud, and other forms of classroom presentation. Individual voice and speech practice. Th F 2-3:10. Miss Fitch.
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- 301a, 301b *Special Studies.* By permission of the Department for senior majors who have had three semester courses above the introductory level. Members of the Department.

Graduate

Inquiries concerning graduate work should be directed to the chairman of the Department.

- 411a, 411b *Research and Thesis.* Members of the Department.
- 412a, 412b *Advanced Studies* arranged in consultation with the Department.
- 413a, 413b *Studies in Dramatic Literature.* (*May be taken for double credit.*) Members of the Department.

THEATRE & SPEECH

414a *Experimental Phonetics*. The methods and subject matter of experimental phonetics and their application in speech teaching and speech correction, with special reference to the speech of the deaf. Prerequisites: a fundamental course in speech and Physics 111 or Psychology 101a, or permission of the instructor.

Adviser of graduate study: Mr Snyder.

THE MAJOR

Adviser: Mr Fisher.

Based on 111a, b, and the passing of a speech test which should, if possible, be taken before the second semester of the sophomore year.

Requirements: Ten semester courses, including 342 and at least one semester in acting, one in design, one in directing, three in Section A, and two optional courses.

Two examinations: One in Field A, and a second in either B or C.

Fields: A. Dramatic Literature and History of the Theatre.

B. Theatre Practice, including Creative Writing and Dance.

C. Speech.

HONORS

Director: Mrs Chinoy.

Basis: 111a, b.

Requirements: (1) Ten semester courses, with emphasis on techniques of production, dance, theatre history, or creative writing and research. Students may combine this basic work with courses in art, English, languages, music, speech, theatre, or any other field approved by the director. (2) An independent piece of work, counting for double semester credit, which may take the form of a thesis in the literature, art, or history of the theatre; an original play; creative work in design, acting, dance, direction, or stagecraft.

Three examinations: two written and one oral. The former will be a general examination covering the historical, theoretical and practical aspects of the theatre; the latter an examination in one of the fields listed above. The oral examination will be in the general field of the student's independent piece of work.

ZOOLOGY

See The Biological Sciences, p. 73.

INTERDEPARTMENTAL MAJORS

AMERICAN STUDIES

Adviser to the major: Mr Aaron.

This major aims to bring into a single focus certain courses which explore the history of American culture in its broadest sense. It is limited to fifty students, twenty-five each from the junior and senior classes.

Requirements: Eleven semester courses including

Eight essential courses:

Two semester courses in American history;

Four relevant semester courses in the American field from at least two of the following departments: Art, Economics, Education, English, Government, Philosophy, Religion, Sociology, and Theatre.

American Studies 331a. Contributions of particular fields to the study of American civilization as a whole. For junior majors.

American Studies 340b. *Integrating Course.*

And a departmental concentration:

Students must select a department in which to take a minimum of five courses including three which may not be counted among the eight essential courses specified above.

Two examinations: an interdepartmental examination set by the American Studies Committee; and a departmental field examination in an American subject. The latter may be identical with one of the field examinations offered by the department in which the student has concentrated. If no suitable examination is offered by the department, an appropriate examination will be given by the American Studies Committee.

HONORS

Director: Mr Aaron.

Requirements: the same as those for the major, except that a long paper will be substituted for either one or two of the eleven required courses. The program must also include at least one unit or seminar in the junior and senior years.

Three examinations: an interdepartmental examination; a departmental field examination in an American subject; and a special examination to test the candidate's ability to do independent research.

INTERDEPARTMENTAL MAJORS

GRADUATE

Adviser: Mr Aaron.

AMERICAN STUDIES 455a (455b). *Advanced Studies.*

ANCIENT STUDIES

Adviser: Mr Cohn-Haft.

Basis: Greek 111 or Latin 112b (or the equivalent); History 101a, 210b. Competence in both Greek and Latin is strongly recommended.

Requirements: Twelve semester courses, including five chosen from Greek 212a, b, 322b, 323a, 331a, 334b, Latin 214b, 322b, 323a, 333a, 335a, 337; three from History, including 206a, and two of the following: 205b, 209a, 310b; and four chosen from Art 211a, 212b, 312b, 314b, Government 260a, Philosophy 124a, 236b, Religion 210a, b, 215, 235a, 315a, b, 327b, and Sociology 235a.

Two examinations: A departmental examination in Greek or Latin or both, and a field examination in Ancient History. In both examinations the student will be expected to demonstrate her ability to assess various aspects of the ancient world through the use of source materials in the original.

HONORS IN ANCIENT STUDIES

Director: Mr Cohn-Haft.

Requirements: the same as those for the major, with the addition of a long paper equivalent to one or two semester courses.

Three examinations: One in Latin, or Greek, or in both languages, to be taken before the end of the junior year; a field examination in Ancient History; and a field examination in classical literature, art, religion, philosophy, or government.

BIOCHEMISTRY

Advisers to the major: Mr de Villafranca, Mr Hellman.

Based on Zoology 100a, 102a, and Chemistry 111a and b, or 112a.

Requirements: Chemistry 111a and b or 112a, and 221b, 222, 231a, 342a; Zoology 100a, 102a, 104a, 201a, 301b and one additional semester course selected from 103b, 105b, 304b, or Microbiology 100a. Prerequisites for Chemistry 231a: Mathematics 104a or b, Physics 115, or their equivalents.

Students may be allowed to take Chemistry 112a instead of 111a and b, and to omit Zoology 100a, on the basis of entrance units and performance in a Departmental screening examination.

INTERDEPARTMENTAL MAJORS

Exemption from the required courses in Physics and Mathematics may be obtained on the basis of Advanced Placement or Departmental examinations.

Students are advised to complete all introductory courses and Chemistry 222 before the junior year.

Two examinations: one in chemistry or zoology, ordinarily taken at the end of either the junior or the senior year; and one in biochemistry, ordinarily taken at the end of the senior year.

HONORS

Directors: Mr de Villafranca, Mr Hellman.

Prerequisites, normally taken before the junior year: Chemistry 111a and b, 221b, 222; Zoology 100a, 102a; Mathematics 104a or b, and Physics 115 or their equivalents.

Requirements: Chemistry 111a and b or 112a, and 221b, 222, 231a, 342a; Zoology 100a, 102a, 104a, 201a, 302b; a unit consisting of one course in each semester of the senior year on an individual investigation.

Three examinations: one in Chemistry and one in Zoology (one of which may be taken at the end of the junior year), and one in Biochemistry; an oral presentation of the honors thesis.

GRADUATE STUDY

Smith College offers graduate programs leading to the degrees of Doctor of Philosophy, Master of Arts, Master of Arts in Teaching, Master of Education, Master of Education of the Deaf, and Master of Science in Physical Education. For foreign students, programs for a Certificate of Graduate Studies and a Diploma in American Studies are available. Ordinarily about one hundred students are registered for advanced instruction, which is available in most departments of the College and in various interdepartmental fields.

Smith College offers to its graduates a Master of Arts program at the University of Hamburg under the supervision of the Director of the Junior Year in Germany. Other colleges may arrange to have candidates for their own Master of Arts degree admitted to this program as guests.

Students at Smith College who have received a baccalaureate degree from a college or university of recognized standing are under the jurisdiction of the Committee on Graduate Study. They fall into two categories: (1) Graduate Students – those who present evidence of high scholarship, promise of satisfactory ability to pursue advanced study and research, and an adequate background in the field in which they intend to seek a degree; (2) Special Students – those college graduates who are enrolled in courses but are not candidates for an advanced degree. Such students need only the approval of the instructor(s) concerned and the Director of Graduate Study.

The Degree of Doctor of Philosophy requires at least three years of advanced study beyond the Bachelor's degree. At present, programs leading to this degree are available in the Departments of the Biological Sciences (in Botany and Zoology), Chemistry, and Hispanic Studies (in Spanish.) Although the requirements for the Master of Arts degree may be fulfilled in one academic year by well-prepared full-time students, most candidates find it more profitable to spend three or four semesters of study to attain the degree. The degree of Master of Education may be obtained in one academic year by properly qualified students and the program for the degree of Master of Arts in Teaching is normally completed in one academic year in addition to a summer session of six weeks. Ordinarily, two years of full-time graduate study will be required for students with an undergraduate major in the liberal arts to complete the requirements for the degree of Master of Science in Physical Education.

FELLOWSHIPS AND SCHOLARSHIPS

Smith College offers several competitive fellowships and scholarships for which students who hold a Bachelor's degree or its equivalent may apply. Special scholar-

GRADUATE STUDY

ships are available for study in Education and in Physical Education. Other fellowships are offered to students from foreign countries.

The science departments and the departments of Education and Child Study, Music, and Theatre offer teaching fellowships and graduate assistantships for part-time graduate study combined with departmental assistance.

INFORMATION

Full information concerning the requirements for the various advanced degrees, admission, residence fees, and fellowships is given in the *Bulletin of Graduate Studies*. This bulletin, an application blank for admission, and other information may be obtained from the Secretary to the Committee on Graduate Study, Gateway House, Smith College, Northampton, Massachusetts 01060.

FOUR-COLLEGE COOPERATIVE PH.D. DEGREE

A cooperative Ph.D. program has been established by Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts. When a student has been awarded a degree under this program, the fact that it is a cooperative Ph.D. degree involving Amherst, Mount Holyoke, and Smith Colleges, and the University of Massachusetts will be indicated on the diploma, the permanent record card, and all transcripts, as well as on the Commencement Program.

The requirements for the degree are similar to those for the Ph.D. degree at the University of Massachusetts except for the statement relating to residence. For the cooperative Ph.D. degree, residence is defined as taking place at the institution where the thesis work is being done.

The following departments are authorized to offer the cooperative Ph.D. degree: the Biological Sciences, Chemistry, French, Geology, German, Hispanic Studies, Philosophy, and Physics.

Students interested in this program should write to the Dean of the Graduate School, University of Massachusetts, Amherst, Massachusetts, 01002.

General Information

THE COLLEGE COMMUNITY

RESIDENCE

Community life and interests are an integral part of the education offered by Smith College. A large number of student organizations—of a civic, cultural, athletic, religious, political, social, pre-professional, or service nature—have the lively support of interested members of the student body to whom they give valuable experience. For some of these activities, such as the largely autonomous student government and the various campus publications, the students themselves are almost wholly responsible; for others, such as the formal musical activities, faculty direction is provided.

Life on the campus is also enriched by an extensive program of lectures and concerts which bring to the College distinguished speakers and musicians from this country and abroad. Additional lectures, concerts, recitals, plays, and debates by both the faculty and the students make for a full and varied calendar.

In support of these and other aspects of community life, the College emphasizes the importance of residence. Freshmen are allowed only a limited number of nights away from the campus during the first semester. At the beginning of the second semester of her freshman year, the student herself assumes the responsibility for upholding the principle of residence.

Faculty and student legislation relating to residence and attendance is printed in full in *The College Handbook*.

THE HOUSES

The basic unit of the campus community is the college house which normally accommodates fifty to seventy students representing all four classes. Assignments to houses are made in the order of dates of application for admission to college. A student may move from one house to another each year during her college course, the order of assignment after the freshman year being determined by lot.

Except for a few smaller houses which are grouped together to make a single unit, each college house has its own living rooms, dining room, and kitchen, and is in the charge of a Head of House who devotes full time to the administration of the house and the welfare of its members. In some of the houses there is also a

GENERAL INFORMATION

resident member of the faculty. Social regulations governing life in the houses are administered by the Student Government Association. Every student is asked to contribute up to four hours a week of light service to the house in addition to taking care of her own room.

RELIGIOUS LIFE

The College provides opportunity for the development and expression of religious faith of all creeds. Services are held weekdays, except Wednesday and Saturday, in the Helen Hills Hills Chapel, and Sunday chapel services bring outstanding clergymen to the campus. Three voluntary religious organizations, the Christian Association (Protestant), Hillel Foundation (Jewish), and the Newman Foundation (Roman Catholic), offer programs of worship, study, and service, while cooperative educational and community service projects are undertaken by the Religious Association, of which every student is a member. The Chapel houses a Religious Center, with meeting rooms for these groups, and offices for the chaplain and other religious advisers. Northampton churches welcome students at their services and activities. Thus the opportunity is provided for students of each faith to strengthen their own convictions and to gain an understanding and appreciation of other traditions.

HEALTH

The Health Service is directed by the College Physician assisted by a medical staff of three full-time physicians, one half-time physician, and one part-time psychiatrist. The services of specialists are readily available in Northampton and Springfield for consultation in cases of unusual or serious illness. The Student Counseling Service, headed by the psychiatrist, provides counseling for students who are concerned about personal problems. As part of its emphasis on preventive medicine, the Health Service also exercises supervision of the health of all of the college service employees.

The Elizabeth Mason Infirmary with a capacity of seventy-five beds is a modern hospital fully accredited by the Joint Commission on Hospital Accreditation. In addition to administrative personnel, its staff includes both a laboratory and an x-ray technician, a dietary supervisor, and eleven registered nurses employed full time. The ground floor of the Infirmary houses the outpatient offices of the medical staff. The Counseling Service has offices on the first floor in the East Wing.

The College has its own insurance plan, underwritten by Blue Cross-Blue Shield, which gives the student unusual protection in the special circumstances of a residence college, in addition to protecting her over a twelve-month period whether or not she is in residence at college. Participation in this plan is optional providing the student has protection under another plan and furnishes the Treasurer's Office with the name and address of the insurance carrier and the student's membership number.

GENERAL INFORMATION

The health fee of \$15 pays for outpatient services. These include examination and treatment by the College physicians, the psychiatrists, and the two student counselors who are psychiatric social workers. Treatment includes some medicines, physical therapy in the form of ultra-violet irradiation and various forms of heat such as diathermy, infra-red rays and whirlpool baths, injections for desensitization as requested by a student's own physician and, in addition, immunizations needed for foreign travel. Some orthopedic appliances, such as crutches, canes, slings, are available on loan.

Complete physical examinations are performed as required for graduate school, employment applications or other special programs.

The College doctors are always available for conference with students.

In the interests of individual and community health, every student is expected to comply with the health regulations which are outlined in *The College Handbook*.

VOCATIONAL COUNSELING AND PLACEMENT

The Vocational Office serves alumnae and seniors who are seeking permanent positions, and underclassmen who wish employment for the summer. It provides information concerning specialized and professional training, arranges lectures and discussions on various vocations, and schedules interviews with employers who visit the campus. Letters of recommendation are collected from employers for the summer work of undergraduates; from faculty, heads of house, and members of the administration for seniors; and for additional study and employment of alumnae. All of these references are filed in the Vocational Office and are sent upon request to prospective employers or scholarship committees.

BUILDINGS AND GROUNDS

COLLEGE HALL, dedicated in 1875 at President Seelye's inauguration, is the main administrative building of the College. The tower houses the twenty-three-bell Dorothea Carlile Carillon presented by her family as a memorial to Dorothea Carlile of the Class of 1922.

JOHN M. GREENE HALL, given by John D. Rockefeller and other donors, is a large auditorium seating 2066 with additional seating space on the stage. The four-manual Austin organ of seventy stops, built in 1910, was presented by the Class of 1900 as a memorial to Cornelia Gould Murphy.

THE WILLIAM ALLAN NEILSON LIBRARY, the gift of Andrew Carnegie, alumnae, and friends, was built in 1909. It was enlarged in 1937, and again in 1962, when two additional wings were added to provide more stacks, and to make possible additional seminar rooms, carrels for students, and offices for staff and faculty.

GENERAL INFORMATION

The Smith College Library contains 500,000 volumes, this number including those books and pamphlets housed for greater convenience in the libraries of the art, music, and science buildings; 1800 current periodicals, and about 40 daily newspapers. The open-shelf system permits free access to all books.

THE HELEN HILLS CHAPEL, completed in 1955, provides a place for public worship and private meditation. The Clara P. Bodman Religious Center, located in the Chapel, contains a lounge and library, a choir room, and offices for the Chaplain and the campus religious organizations. The three-manual Aeolian-Skinner organ of thirty-nine stops, built in 1955, was presented by Mrs Hills as a memorial to her husband, James Mandy Hills.

SEELYE HALL, given by friends of President Seelye, contains 24 classrooms and, until 1966, housed the laboratories and office of the Department of Geology and Geography.

HATFIELD HALL, formerly Hatfield House, became an academic building in 1926, providing additional seminar and class rooms.

WRIGHT HALL, completed in September 1961 and named for former President Benjamin F. Wright, contains 58 faculty offices, eight seminar rooms, a language laboratory, a social science research center, a conference lounge, and a lecture hall seating 424.

THE HILLYER GALLERY, named for Winthrop Hillyer whose gift and bequest made possible the college's first art gallery, is equipped with studios and exhibition rooms, the Drayton Hillyer Art Library of 19,000 volumes, and collections of 43,000 photographs and 85,000 slides. Graham Hall, a lecture hall seating 265, was added to the building through the generosity of Christine Graham Long of the Class of 1910.

When the TRYON GALLERY was presented to the College by Mr and Mrs Dwight W. Tryon to house the Smith College Museum of Art, most of the paintings, prints, and other works of art in the Hillyer Gallery were transferred to it. The Museum also contains galleries for loan exhibitions, which are arranged under its auspices to supplement the permanent collections.

SAGE HALL, the music building named in honor of Mrs Russell Sage, contains classrooms, offices, practice rooms and listening rooms, the Werner Josten Music Library of 10,000 books and 30,000 scores, and a collection of 20,000 records. It also has an auditorium seating 743, and is equipped with apparatus for motion pictures.

THE CLARK SCIENCE CENTER, given by Mrs. W. Van Alan Clark (Edna McConnell '01) and other donors, comprises a completely renovated Burton Hall and two new buildings: McConnell Hall, and Sabin-Reed Hall, named for Dr. Florence Sabin '93 and Dr. Dorothy Reed Mendenhall '95.

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MCCONNELL HALL, opened in December 1965, houses the Departments of Astronomy, Mathematics, and Physics. Sabin-Reed Hall, completed in September 1966, contains the Departments of the Biological Sciences, Chemistry, part of Geology and Geography, and a Science Library of 30,000 volumes and over 450 current periodicals. Burton Hall, named for President Burton, is to be devoted to the Departments of Psychology and Geology.

THE CLARK SCIENCE CENTER meets the most exacting specifications for modern scientific experimentation and equipment. In addition to formal class laboratories, there are areas for graduate and advanced undergraduate research. Each instructor has his own office and laboratory. All departments share the use of the McConnell Auditorium seating 200, general class rooms, and seminar rooms, radiation laboratories, quarters for animals, a machine shop, stockroom, and special equipment.

PIERCE HALL, named in honor of Professor Arthur Henry Pierce, was devoted mainly to the Department of Psychology from 1882 to 1966.

LILLY HALL OF SCIENCE, the gift of Alfred Theodore Lilly, contained the lecture rooms, laboratories, and library of the Department of Physics from 1886 to 1966.

STODDARD HALL, named in honor of Professor John Tappan Stoddard, served as the college's chemistry building from 1899 to 1966.

THE LYMAN PLANT HOUSE, the gift of Edward Hutchinson Robbins Lyman in memory of his mother, Anne Jean Lyman, includes greenhouses illustrating the vegetation of different climates, together with physiological and horticultural laboratories. Adjoining it is the BOTANIC GARDEN designed for horticultural study, with sections to illustrate plant classification and habits. Arranged about the college grounds are smaller gardens and numerous varieties of native and imported trees and shrubs.

THE ALUMNAE GYMNASIUM, given by the alumnae and their friends in 1891, contains two bowling alleys and four squash courts. It is also the present home of the Smith College Theatre. Classrooms and offices of the Department of Theatre and Speech are located in this building.

THE SCOTT GYMNASIUM, named in honor of Col. Walter Scott, contains a large floor used for volleyball, basketball, and fencing, a room for dance, two smaller gymnasiums for group gymnastics, a graduate student classroom and library, a swimming pool 75 feet by 23 feet, an undergraduate lounge, and department offices.

GILL HALL, MORGAN HALL, and FORT HILL HOUSE are used by the Department of Education and Child Study for the Smith College Day Schools. Gill Hall contains an assembly hall seating 170, and has a large playground adjoining it. A recently completed annex has increased the number of its classrooms.

THE ELIZABETH MASON INFIRMARY was opened in 1919. Its name commemorates Elizabeth Mason Howland, a graduate of the Class of 1904 and a daughter of

GENERAL INFORMATION

Frank H. Mason whose gift completed the fund raised by the Alumnae Association for the construction of an infirmary. The Florence Gilman Pavilion, added while Smith was host to the Naval Officers' Training School, was enlarged and completed in 1950-51. The result is an attractive, well-equipped, fire-resistant hospital with a capacity of seventy-five beds. In the fall of 1963 it was fully accredited by the Joint Commission on Hospital Accreditation. The ground floor of the Infirmary houses the outpatient offices of the medical staff.

THE ALUMNAE HOUSE, presented to the College by the Alumnae Association in 1938, contains offices for the staff of the Association, rooms for the use of the alumnae and the college, including a conference room seating 300.

DAVIS STUDENT CENTER, the student recreation building, contains a food shop, lounge, ballroom, and committee rooms for student organizations. It was named by the students in honor of President Davis.

THE RECREATION FIELDS, over thirty acres in extent, including the Allen Field, the gift of Frank Gates Allen, and the Athletic Field, afford opportunities for such sports as hockey, soccer, baseball, lacrosse, tennis, archery, volleyball, practice golf. A short distance away are the Riding Stables. The Field House was built in the summer of 1939 with funds given by the classes of 1938 and 1939, the undergraduates, the Athletic Association, and the Trustees. Besides storage space for athletic equipment, it contains a lounge, a kitchenette, a small meeting room, and dressing rooms. The Boathouse on Paradise Pond has accommodations for canoes, rowboats, sailboats, and rowing machines. In the Crew House are eight rowing shells and a large recreation room.

THE COLLEGE HOUSES

The thirty-four residence units provide living accommodations for approximately twenty-two hundred students.

The Old Campus: Chapin, Dewey (together with Clark, a small house adjacent to it), Haven (together with Wesley), the Hopkins group (three contingent houses), Hubbard, Lawrence, Morris, Park, Park Annex, and 150 Elm Street, Tenney (cooperative, for upperclassmen), Tyler, Washburn.

The Campus Northeast of Elm Street: Albright, Baldwin, Capen, Cutter, Dawes (the French House), Gillett, Lamont, Northrop, Parsons and Parsons Annex, Sessions, Talbot, Ziskind.

The Quadrangle Houses: Comstock, Cushing, Ellen Emerson, Franklin King, Gardiner, Jordan, Laura Scales, Martha Wilson, Morrow, Wilder.

The Graduate Houses: 8 Bedford Terrace, Elizabeth Drew House.

FEES AND EXPENSES

THE ANNUAL FEE

The inclusive annual charge for tuition, residence, and health fee for the 1967-68 and 1968-69 academic years will be \$3,140. The College offers an optional health insurance program (see p. 200). Students are not charged the full cost of instruction since the annual fee represents approximately three-fourths of the cost to the College for each resident student. Thus every student receives a sizable scholarship provided out of endowment income and current gifts to Smith College.

Statements for semester fees are mailed on or about August 15 and January 20. Checks should be made payable to Smith College and forwarded to the Office of the Treasurer. Payment of charges for the first semester is due by September 1; for the second semester by February 1.

PAYMENT PLANS

The College has no established plan for installment payment of semester charges. The cost of operating such a plan and the fact that the College is not staffed to handle it preclude the possibility of such an arrangement. The College participates in the Insured Tuition Plan and Education Funds Incorporated; both plans offer monthly payment plans to parents. Pamphlets describing these plans are mailed by the Treasurer's Office to parents of incoming freshmen prior to the beginning of the academic year.

WITHDRAWAL REFUNDS

Commitments to Faculty and staff and arrangements for the housing and board of students are made by the College in advance of the academic year. They are based on anticipated student enrollment and are not subject to change.

A student who notifies the Registrar of her withdrawal prior to the opening of the College will have all charges cancelled.

A student who withdraws after registration will receive no refund for tuition or room. Board will be refunded on a pro-rata basis.

DEPOSITS

A General Deposit in the amount of \$100 is required from each new student.

1) For students entering under the Early Decision Plan, the deposit is payable by January 1.

2) For all other students, the deposit is payable on or about May 5. (This is a one-time deposit which will be refunded following graduation or upon withdrawal, provided that the Registrar has been notified in writing before July 1 that a student will withdraw for first semester or before December 1 for second semester. The deposit is not refunded for new students in case of withdrawal before entrance.)

A Room Deposit, non-refundable, in the amount of \$100 is required from each incoming resident Freshman or upper class transfer student. This deposit is due on the same date as the General Deposit described above. It will appear as a credit on first semester statements.

FEES AND EXPENSES

	<i>1st semester</i>	<i>2nd semester</i>
TUITION	\$ 1,000.00	\$ 1,000.00
Room and board	550.00	550.00
LINEN FEE	25.00	
HEALTH FEE	15.00	
<hr/>		
TOTAL REQUIRED FEE	\$ 1,590.00	\$ 1,550.00
ACCIDENT AND SICKNESS INSURANCE		
Optional if alternate coverage is carried		\$30.00
OTHER FEES AND CHARGES		
<i>Fees for courses in practical music</i>		
Vocal or instrumental, for the College year:		
One hour lesson a week		225.00
One half-hour lesson and two class hours		225.00
One additional half-hour lesson taken for extra credit		75.00
Courses in ensemble when given individually		50.00
Use of practice room and a college instrument		15.00
Use of practice room only, one hour daily		7.50
Use of organs, one hour daily		35.00
		<i>plus</i>
<i>Fees for classes in riding</i>		<i>jumping</i>
Fall 2 hours weekly	\$55.80	\$ 69.30
3 hours weekly	83.70	97.20
Winter Unlimited riding	85.00	98.00
Spring 2 hours weekly	37.20	46.20
3 hours weekly	58.50	67.50
<i>Materials for courses in technical art</i>		at cost
Graduation fee		15.00
Infirmiry charge per day		30.00
Each resident student may have Infirmiry care for six days each year without charge, but no more than two free days may be used for any one illness.		
<i>Preliminary Payments</i>		
Registration for application for admission		15.00
Not refunded or credited		
General Deposit		100.00
Room Deposit		100.00
(See preceding page for information concerning the above deposits.)		
FEE FOR NON-MATRICULATED STUDENTS FOR EACH COURSE		230.00
FEE FOR AUDITING, PER THREE-HOUR COURSE		5.00
ESTIMATED ADDITIONAL EXPENSES:		
Books, each year, approximately		125.00
Subscriptions and dues, student activities		25.00
Gymnasium outfit for physical education		30.00
Recreation and incidentals		from \$250.00 up

SCHOLARSHIPS & FINANCIAL AID

SCHOLARSHIPS

For students who are unable to meet their full expenses, the College offers scholarships ranging from \$200 to \$2500 as well as student loans. The scholarships are made possible through endowed funds given to the College for this purpose, by an annual appropriation from general income, and by annual scholarship gifts from alumnae clubs and other organizations. Awards are granted to applicants of marked scholastic achievement, academic promise, and demonstrated financial need.

Any scholarship granted to an entering student will normally be continued through her sophomore year if she maintains a good personal record, an academic standing of diploma grade, and proves financial need. At the completion of the sophomore year all awards will be reviewed by the Scholarships Committee. Awards will then be renewed only on the bases of demonstrated ability, total achievement, and continued need.

Applicants and their families are advised that when no scholarship aid is awarded for the freshman year there is small likelihood that a student will receive a scholarship for the following year, except in emergency situations. Applicants with a superior academic record for the first two years and continued need will be considered for upperclass awards.

Applications for financial aid for entering students must be sent to the Director of Scholarships and Student Aid by January 15, 1967, if the candidate plans to enter in September 1967. Candidates for entrance in September 1968 must file financial aid applications by January 8, 1968. Students applying for admission under the Early Decision Plan should send their applications to the Director of Scholarships and Student Aid by October 1st of the senior year at school.

Scholarships are granted at the discretion of the Trustees to undergraduates who have been residents of Northampton or of Hatfield for at least five years directly preceding the date of their admission to college, provided they are able to satisfy the full requirements for admission. Such grants are continued through the college course if the student maintains diploma grade, conforms to the regulations of the College, and continues to be a resident of Northampton or Hatfield.

Scholarships of amounts up to full fees may be awarded to foreign students. Special applications should be directed to the Committee on Foreign Students.

The Huguenot Society of America awards scholarships of \$1000 at the recommendation of the College to students whose ancestry meets the requirements of the Society. Special application forms are available in the office of the Director of Scholarships.

LOANS

Each award of financial aid to regular students is usually a combination of scholarship grant and loan.

Student loans from College funds are available to all students in good standing with proven financial need. Smith College also participates in the National Defense

SCHOLARSHIPS

Education Act Loan Program. All applications for loans should be made to the Director of Scholarships and Student Aid by August 15th of the year of entrance. Later applications may be considered in emergencies.

All financial aid, whether scholarship or loan, is granted only to applicants whose need is proved on the basis of information submitted on the Parents' Confidential Statement of the College Scholarship Service. Need is reviewed annually. The College itself makes all final decisions. Awards to entering students are announced simultaneously with admission decisions.

SELF-HELP

Tenney House, originally established as the gift of Mary A. Tenney, is open to members of the three upper classes. In this house the students cooperate in the purchase of food and in the duties of housekeeping. The cost of a room in Tenney House is \$200 for the year; current prices determine the cost of board.

The College undertakes general supervision of the remunerative work done by undergraduates. Students wishing any kind of employment during the college year should register with the Director of Scholarships and Student Aid. The amount of work available is limited. Freshmen are not permitted to work outside their houses during their first semester.

MUSIC SCHOLARSHIPS

Each year the College awards scholarships for lessons in practical music to students recommended by the Music Department. Auditions are held for entering students after the opening of College.

FIRST GROUP SCHOLARSHIPS

The following scholarships are awarded to students of highest academic standing: *The Neilson Scholarships*. Not more than fifteen scholarships, created by the Board of Trustees in honor of President William Allan Neilson on the completion of fifteen years of his administration, are awarded annually to students in the first group of scholars in the three upper classes.

The Dwight W. Morrow Scholarships. Ten scholarships are awarded annually to seniors in the first group of scholars.

The William A. Neilson Scholarship. This award provides full tuition for a student in the first group.

The Sophia Smith Scholarships. These scholarships are awarded without stipend to members of the three upper classes whose standing entitles them to a place among the first group of scholars.

FELLOWSHIPS

The list of fellowships awarded for graduate work, including those open to students from foreign countries, appears in the *Bulletin of Graduate Studies*.

PRIZES

The *Alpha Awards* are made annually by committees of the faculty for excellence in the fields of creative writing, dance, drama, technical art, practical music or composition.

The *Academy of American Poets Poetry Prize* of \$100, to be awarded annually by the Academy of American Poets through the prize committee of the English Department for the best poem or group of poems submitted by an undergraduate.

The *Anita Luria Ascher Memorial Prize* of \$25, given in her memory by Dr. Liebe D. Sokol '51 and her parents, to be awarded annually to the student who has shown most progress in German during the year.

The *Elizabeth Babcock Poetry Prize* fund of \$3,203.86, established by Miss Edith L. Jarvis 1909 in memory of Elizabeth Babcock ex-1911. The income is to be awarded annually for the poem adjudged best by a committee appointed by the Department of English. The competition is open to all undergraduates who have not already won the prize; the poem submitted may not have been printed previously.

The *Harriet Dey Barnum Memorial Prize* fund of \$384.44, founded by the Class of 1916, the income to be used for outstanding work in music.

The *Suzan Rose Benedict Prize* fund of \$1,391.07, the income to be awarded at the discretion of the Department of Mathematics to a freshman or sophomore who has done outstanding work in differential and integral calculus, the decision being made by the Department.

The *Borden Freshman Prize* of \$200, to be awarded annually from 1962 to 1971 to that student who has achieved the highest average grade among the members of the class for all college work taken during the freshman year.

The *Samuel Bowles Prize* fund of \$2,566.59, the income to be awarded to a senior for the best thesis on a sociological or economic subject.

The *John Everett Brady Prize* fund of \$2,563.10, the income of which is awarded for excellence in Latin, to be tested by an examination in sight translation.

The *Margaret Wemple Brigham Prize* fund of \$1,089.26, established in her memory by friends and associates of the Division of Laboratories and Research of the New York State Department of Health, the income to be awarded to a senior for excellence in bacteriology.

The *Amey Randall Brown Prize* fund of \$2,563.10, given by Miss Mabel Brown 1887 in memory of her mother. The income is to be used as a prize for the best essay on a botanical subject.

The *Vera Lee Brown Prize* fund of \$1,281.50. On recommendation of the Department of History the income is awarded for excellence in that subject to a senior majoring in history in the regular course.

PRIZES

The *Yvonne Sarah Bernhardt Buerger Prize* fund of \$6,408.30, the income to be awarded to those undergraduates who have contributed most vitally to the dramatic activities of the College.

The *James Gardner Buttrick* fund of \$1,281.50, given by Mrs Buttrick in fulfillment of her husband's wish, the income to be used for a prize for the best essay on a subject in the field of religion and Biblical literature suggested by a course in that Department and approved by the instructor.

The *Carlile Prize* fund given by the Very Reverend and Mrs Charles U. Harris in memory of Dorothea Carlile 1922, from which is awarded a prize of \$25 for the best original composition for carillon and a prize of \$15 for the best transcription for carillon.

The *Julia Harwood Caverno Prize* fund of \$2,563.10, the income of which is given to a member of the junior or the senior class for excellence in Greek language and literature.

The *Sidney S. Cohen Prize* fund of \$3,203.86, the income to be awarded at the discretion of the Department of Economics.

The *Ethel Olin Corbin Prize* fund of \$1,281.50, the income to be awarded to an undergraduate for the best original poem—preferably blank verse, sonnet, or ballad—or informal essay in English.

The *Dawes Prize* fund of \$2,433.22, the income to be awarded for the best undergraduate work in political science.

The *Alice Hubbard Derby Prize* fund of \$3,274.95, the bequest of Mr Henry R. Lang in memory of his wife, a member of the Class of 1885. The income is to be used for prizes awarded by the Classics Department to students of the junior and senior classes who have shown special proficiency in the study of Greek literature in the original in the year in which the awards are made. The award will be based on an examination in sight translation.

The *Elizabeth Drew Prize* fund, the income to be awarded to an undergraduate for work in English.

The *Hazel L. Edgerly Prize* fund of \$640.75, founded in memory of Hazel Louise Edgerly 1917, the income to be awarded on the recommendation of the Department to a senior in honors in history for distinguished work in that subject.

The *Settie Lehman Fatman Prize* fund of \$6,407.82, the income to be awarded in two prizes for the best musical composition, preferably in sonata form, and for the best composition in a small form by members of the senior class or graduate students taking Music 342 or Special Studies in Composition or by a student in Music 233.

The *Harriet R. Foote Prize* fund of \$640.75, the income of which is to be awarded to the outstanding student in botany, based on an examination record.

PRIZES

The *Henry Lewis Foote Memorial Prize* fund of \$640.75, given by his wife, Harriet Risley Foote 1886, the income to be awarded for excellence in class work in Biblical courses.

The *Clara French Prize* fund of \$6,408.06, founded by Mrs Mary E. W. French, the income to be given to that senior who has advanced farthest in the study of English language and literature.

The *Helen Kate Furness Prize* fund of \$1,281.50, founded by Horace Howard Furness, the income of which is given for the best essay on a Shakespearean theme. There is no restriction on the length of the essays, but in general they are not to be shorter than 4000 words or longer than 10,000 words. The competition is open to all essays on a Shakespearean theme (except honors theses) prepared in courses or units and recommended by the instructors of such courses or units.

The *Sarah H. Hamilton Memorial Prize* fund of \$926.56, given by her sister Julia H. Gleason, the income to be awarded for an essay on music.

The *Arthur Ellis Hamm Scholarship Prize* fund of \$6,407.82, founded by Elizabeth Creevey Hamm 1905 in memory of her husband, Captain Arthur Ellis Hamm, the income to be awarded to a freshman on the basis of the year's record.

The *Frances A. Hause Memorial Prize* fund of \$1,281.50, founded in memory of Frances A. Hause 1922, the income to be awarded to the senior who has majored in chemistry and has made the best record in that subject.

The *Florence Corliss Lamont Prize*, a medal to be awarded for work in philosophy.

The *Emogene Mahony Memorial* fund for the furtherance of English literature and dramatic art from which is awarded \$25 for the best essay on a literary subject written by a freshman, and \$100 for the best honors thesis submitted to the Department of English.

The *Emogene Mahony Memorial Prize* fund of \$640.75, founded by Miss Ethel Haskell Bradley 1901, the income to be given for proficiency in organ.

The *John S. Mekeel Memorial Prize* fund of \$1,000, given in his memory by his wife, the income of which is to be awarded annually to a member of the senior class, selected by the Philosophy Department, for outstanding work in philosophy.

The *Samuel Michelman Memorial Prize* fund of \$640.75, given in his memory by his wife, the income to be awarded to a senior from Northampton or Hatfield who has maintained a distinguished academic record and contributed to the life of the College.

The *Mrs Montagu Prize* fund of \$512.63, founded by Abba Louisa Goold Woolson in honor of Elizabeth Montagu, the income to be awarded for the best essay on the women of the eighteenth century or women depicted in the literature of that century.

PRIZES

The *Victoria Louise Schrager Prize* fund of \$2,563.23, given in her memory by her family and Miss Marjorie Hope Nicholson, the income to be awarded annually to a senior who has maintained a distinguished academic record and has also taken an important part in student activities.

The *Andrew C. Slater Prize* fund of \$1,281.50, the income of which is awarded to an undergraduate for excellence in debate.

The *Frank A. Waterman Prize* fund of \$429.33, the income to be awarded to a senior who has done excellent work in physics.

1966 Awards

PRIZES

Alpha Awards: in art, Isabel McIlvain Barton, 1966; creative writing, Eudora Simmons, 1966; dance, Pamela Breil, 1966; music, Barbara Girshoff, 1966; theatre, Stephanie Braxton, 1966

Academy of American Poets Poetry Prize: Susan Rumble, 1967

American Chemical Society Student Award, Connecticut Valley Section: Emma H. T. Lin, 1966

American Institute of Chemists' Medal: Emma H. T. Lin, 1966

Elizabeth Babcock Poetry Prize: Eudora Simmons, 1966

Harriet Dey Barnum Memorial Prize: Leslie N. Selden, 1966

Suzan Rose Benedict Prize: Gail R. Blattenberger, 1968 and Christine L. Anderson, 1969

Borden Freshman Prize: Susan Eileen Bangs, 1969

Samuel Bowles Prize: Economics: Cornelia M. Mendenhall, 1966, and Kathleen Middlekauff, 1966; Sociology, Sylvia M. Berman, 1966

John Everett Brady Prize: Diana C. Gould, 1966

Amy Randall Brown Prize: First Prize: Diana F. Seacord, 1967; second prizes, Kate Miller, 1968, and Deborah Diemand, 1966

Vera Lee Brown Prize: Elizabeth Beers Joyce, 1966

Yvonne Sarah Bernhardt Buerger Prize: Sarah J. Eigerman, 1966, and Caroline M. McGrath, 1966

James Gardner Buttrick Prize: Holly Harrison Gathright, 1966, and Susan J. Napier, 1967

Julia Harwood Caverno Prize: Diana C. Gould, 1966

Sidney S. Cohen Prize: Cornelia M. Mendenhall, 1966, Kathleen Middlekauff, 1966; and Jill A. Tuchman, 1967

Alison Loomis Cook Scholarship Award: Georgia M. Angell, 1967

Ethel Olin Corbin Prize: Jeri Kroll, 1967

Dawes Prize: Linda Kridel, 1966

Alice Hubbard Derby Prize: Judina G. Henderson, 1966, and Diana C. Gould, 1966

Elizabeth Drew Prize: Susan Froehly, 1966

Amanda Dushkin Scholarship Award: Suzanne M. Shaw, 1967

Hazel L. Edgerly Prize: Susan Woolfson, 1966

Settie Lehman Fatman Prize: Clyde D. Watson, 1968

Harriett R. Foote Prize: Kay M. Riddle, 1968

Henry Lewis Foote Memorial Prize: Sallie C. Waterman, 1968

Clara French Prize: Laraine Leberfeld, 1966, and Gail Kern, 1966

Arthur Ellis Hamm Scholarship Prize: Susan Eileen Bangs, 1969

Frances A. Hause Memorial Prize: Emma H. T. Lin, 1966

1966 AWARDS

Florence Corliss Lamont Prize: Carolyn W. Korsmeyer, 1966

Emogene Mahony Memorial Fund: Aline M. Hill, 1968; Gail Kern, 1966, and Michele Sviridoff, 1966

Emogene Mahony Memorial Prize: Vera M. Semenyna, 1967

Guthrie McClintic-Katharine Cornell Prize: Ruth Eller, G.A.

Samuel Michelman Memorial Prize: Barbara A. Metzger, 1966

Victoria Louise Schrager Prize: Sharon E. Harper, 1966

Frank A. Waterman Prize: Barbara J. Reeves, 1966

FIRST GROUP SCHOLARS*

Class of 1967

Barbara Frances Beers
Beatrice Barclay Carlson
Eileen Susan Cohen
Gale Susan Cooper
Cherie Lyn Fisk
Marion Roberts Foote
Linda Fowler (Leonard)
Valerie Griffith
Jacqueline Hicks
Marilyn Jeffreys Hopkins
Julia Howell (Merritt)
Joan Prince Hutchinson
Nicole Krein
Victoria Ena Leitner
Deborah Louise Lisansky

Susan Jean Napier
Helen Barbara Pinkerton
Kate Erskine Rockhill
Laurie Jane Rosenthal
Paula Satlow
Marjorie Claire Schmidt
Claire Rachel Segal
Merril Stevenson
Susan Elizabeth Sullivan
Elaine Sussman
Jill Aileen Tuchman
Justina Winston
Paula Wolff
Helen Elizabeth Woodman

Class of 1968

Sally Chapman
Maryann Sandra Engster
Carla Emilia Germano
Carole Eudice Goldberg
Sharon Beth Gurwitz
Anne Christine McMorro
Donna Dewar Markle
Catherine Gibbs Miller
Catherine Anne O'Regan

Susan Maye Peterson
Rosalind Rayack
Sylvia Rose Schwartz
Margaret Rose Silverberg
Carol Ann Waksmonski
Judy Rutter Warriner
Sallie Cameron Waterman
Carole Aileen White

*These include the Dwight W. Morrow, the Neilson, the William Allan Neilson, and the Sophia Smith scholars.

1966 AWARDS

Class of 1969

Mary Myers Ackerly
 Susan Eileen Bangs
 Lucia Irene Berinstein
 Pamela Zoe Bowes
 Catherine Vernon Campbell
 Laura May D'Andrea
 Elizabeth Gale Eaton
 Ellen Amy Gurman
 Jane Harriet Hammer
 Martha Dickinson Holt (Burt)
 Miranda Juan
 Donna Frances Kusewitt

Betsy Lamson
 Sue Ann Levin
 Katherine Powell Messenger
 Virginia Lee Morton
 Melissa Corinne Scott
 Mary Tait Seibert
 Barbara Lynn Steinmann
 Elizabeth Nuttall Swoope
 Nancy Ingersoll Vedder
 Kathy Jo Weingarten
 Mary Jessie White
 Heddy Jo Zirin

DEGREES

A.B.

Aileen Catherine Adams
 Susan Jeannette Aldrich
 Judith Ambrose
 Lucille Clayton Anderson

 Sally Sutherland Bassett
 Susan Bates
 Codie Elisabeth Bayer
 Marcia Christine Baylock
 Sarah Louise Beck
 *Elizabeth Tweedy Beers (Joyce)
 †Arlene Joy Belsky
 Ellen Sue Berelson
 Cornelia Anne Birgel
 Sarah Elizabeth Blake
 Sara Walton Blakeslee
 Penny Sybil Blass
 Susanna Bodine
 Anne Elizabeth Boehm
 Josephine Adams Boeker
 Yvette Marie Bouchard
 Susan Katherine Boyer

Patricia Elaine Brawer
 Stephanie Braxton
 Pamela Elaine Breil
 Ellen Alaire Bretz
 Mai Onike Bright
 Evelyn June Bromet
 Barbara Lillian Brooks
 Margaret Willa Browar
 Pamela Leslie Brown
 Sheila Edwards Brown
 Lydia Clark Bruner
 Elizabeth Anne Brunton
 Donna Andrus Bryner
 Martha Ellen Byington

Katharine Dwight Caldwell
 Cheryl Ann Caliendo
 Harriet Babcock Campbell
 Mary Alice Canning
 Mary Martha Carroll
 Megan Laura Carroll
 Margaret Mitchell Carson (Clark)

*Elected to Phi Beta Kappa

†Elected to Sigma Xi

1966 AWARDS

Ann Louise Carus
 Elizabeth Melville Chapin
 Margaret Spencer Chase
 Olivia Lowell Cheever
 Nancy Rose Chiswick
 Clara-Mae Louise Chittum
 Jean Anderson Claggett
 Carolyn Patricia Ann Clark
 Eunice Jacobson Coates
 *Alice Coggeshall
 Virginia Carol Colenda
 Paula Cook
 Glenda Lorraine Copes
 Margaret Christine Cottony
 Lelia Jane Coveney
 Arabella Craddock
 Gail Louise Crandall
 Sarah Burdick Cross
 Lee Fontaine Culver
 Mary Kathleen Cunningham
 Pamela Jean Cutler

Matilda Clifford Dana
 Sharon Clare Daniels
 Nancy Ann Davis
 Bennette Kay Deacy
 Mary de Lancey
 Dorinda Derow
 Laura Bryan deWeese
 Elizabeth Ann Dewton

†*Deborah Diemand
 Ellen Gregory Dodge
 Frances Ann Donoghue
 Frances Stevens Dorer
 Zena Charlotte Dorfman
 Diana Dorsey
 Nancy Ellen Dowd
 Candace Francesca Drake
 Mary Swift Driver
 Mabel Olive Church Dubois

Deborah Chace Eaton
 Dorothy Ormonde Edmonds
 Elizabeth Windsor Edwards
 Sarah Jane Eigerman
 Barbara Susan Elston
 Ellen Emerson
 Laura Beth Engelstein
 Gayle Frances Evans
 Sandra Elaine Evans
 Janet McLellan Exter

Sylvia Sze-Ying Fang
 Frances Taber Fangboner
 Florence Farber
 Susan Carol Farnham
 Anne Bailey Farr
 Nancy Jane Fenn
 Barbara Joy Feuerstein
 Patrice Diane Fiedler
 Susan Shannon Field
 Pamela Jeanette Fisher
 Sally Gorton Fisher
 Nan Clare Fitzpatrick
 Deborah Pearce Forbes
 Nichol Janine Forsht
 Ann Moor Francis
 Nan Burks Freeman
 Susan Gretchen Freiheit
 Susan Yvonne Froehly
 Therese Ruth Frommer
 Elizabeth Gail Fuchs
 †Patricia Ann Fulkerson
 Angela Chi-Yee Fung (Bender)

Kathryn Weyand Gardner
 Audry Sue Gartenberg
 Stephanie Kennedy Gerard
 Elizabeth Banks Gilbertson
 Patricia Gilchrist
 Kathleen Louise Gill

1966 AWARDS

Sue Ann Gilles
 Barbara Deanne Gillette
 Patricia Anne Glatfelter
 Joan Goren
 Lynne Henny Gorman
 Karen Grant
 Roxanne Macauley Grant
 Eileen Diane Greenberg
 Karol Ann Grubbs

 Julie Anne Haenel
 Dorothea Joan Webster Hall
 Karin Halvorson
 Jeanne Faye Hampton
 Gail Harris
 Holly Ann Harrison (Gathright)
 Katherine Hashmall
 Glenna May Hazeltine
 JoAnn Headstream
 Margaret Ann Heinzerling
 Gertrude Jackson Hellmann
 Suzanne Jane Helm
 Judina Georgina Henderson
 Alison Morgan Henning
 Ellen May Henson
 Katherine Frances Herbert
 Susan Jane Higgins
 Rozina Natha Hirji
 Susan Hoffman (Wheelock)
 Mary Louise Hoffmann
 Honora Horan
 Nancy Hart Horner
 Linda Downer Hough
 Heather Phelps Howland

 Mary Tyler Ivins
 Jane Ellen Jacobs
 Frances Hamlin Jamme
 Vivian Margaret Jarrett
 Marianna Johnson

Trudy Marie Johnson
 Leslie Judd

 Nancy Gloria Karlin
 Judith Marilyn Kaye (Shaw)
 Marie Harriett Keutmann
 Margaret Ann Kidder
 Constance Ann Kiesewetter
 Nancy Harrington King
 Karen Ann Koury
 Dorothy Sheila Kramer
 Nancy Chase Kropp
 Ellen Ames Kuhbach

 Linda Sue Lammers
 Louise Claire LaMontagne(Greene)
 Susan Mae Lang
 Martha Ellen Lazarus
 Patricia Padgett Lea
 Martha Susan LeCates
 Laura Lee
 Margaret Anne Lee
 Nancy Scott Leonard
 Jenifer Anne Levenson
 Anne Renville Leventritt
 Carolyn Jeanne Lewis
 Virginia Davis Lewis
 Carlene Dana Heaphy Littlefield
 †Rita Katherine Long
 Katherine Clarke Lowden
 Elizabeth Moulton Lowell
 Karla Holmes Luddecke
 Joan Marie Lundberg

 Anne Alexander McCarthy
 Elizabeth Noel McCoy
 Candace Bancroft McElroy
 Nancy McGee
 Caroline Mary McGrath
 Martha McHutchison

1966 AWARDS

Isabel McIlvain (Barton)
 Susan McIntosh
 Patricia Joanne MacKay
 Merrill McLoughlin
 Judith Mott Mahanna
 Hope Magda Malmgren
 Diana Frances Penelope Mancusi-
 Ungaro

Carol Isabelle Margeson
 Margaretta Johnston Markle
 Anne Elisabeth Marshall
 Aline Jay Massey
 Sachiko Masuoka
 Linda Mathes
 Margot Victoria Mayer
 Virginia Blanchard Means
 Susan Gerard Melville
 Diana Tyres Michels
 Laura Cutler Middleton
 Jeanne Allen Miles
 Barbara Ruth Miller
 Patricia Ellen Minkler
 Emily Constance Mitchell
 Ellen Kathryn Moorhouse
 Carol Suzanne Morrison
 Margaret Penney Moss
 Margaret Ellen Mowen
 Jane O'Neill Murphy
 Barbara Myrun

Carol Nadell
 Margaret Ann Naeser
 Jill Cara Nareff
 Lois Ingrid Newmark
 Nancy J. Nitikman
 Lilliann Alice Noda
 Sandra Ann Northrup
 Josephine Manigault Northup

 Margaret Helen Oberhofer

Ann Lowrey O'Brien
 Sachiko Ochiai
 Christina Ekengren O'Dunne
 Jean Patton Ogden
 Joan Oliver
 Emily Anne Olson
 Ruth Chinwenwa Onukwue
 Susan Jane Oram

Angela Marie Packard
 Virginia Page
 Frances Peregrine Palmer
 Priscilla Justina Paradise
 Nancy Jean Parker
 Jean Romaine Pascoe
 Neenah Elizabeth Payne
 Patricia Perkins
 Lucile Crossman Pingree
 Ann Elizabeth Plunkett
 Virginia Mary Podolak
 Ann Porter
 Elsa Arbogast Pottala
 Barbara Jon Potter
 Rhoda Yvonne Potts
 Paula Winslow Protze
 Gretchen Ann Pruden (Russell)
 Lynne Rick Putnam
 Sandra Lee Putnam

Christina Elizabeth Quinn

Martha Hartford Ramsing
 Janice Louise Reed (McNeill)
 Constance Priscilla Reeves
 Margaret Gibson Reeves
 Frances Elizabeth Reid (Svensson)
 Victoria Reiter
 Marilyn Louise Reynolds (Duffy)
 Nancy Katharine Reynolds
 Tanyss Robbie Rhea

1966 AWARDS

Deirdre Jane Rhoads
 Jane Rhodes Ridgley
 Dagmar Ristic
 Bronwyn Alice Roberts
 Nan Russel Robinson
 Mary Patricia Rogaleski
 Jane Rogers
 Ellen Tryon Roop
 Gale Blanche Evelyn Rosenberg
 Barbara Joan Rouse
 Susannah Worth Rowley
 Susan Joy Rubinow (Gorsky)
 Alexandrine Gérard Rust

Ann Irene St. Laurent
 Pamela Raymond Salisbury
 Sara Merrick Sanders
 Nancy Josephine Saner
 Karen Sargent
 Janet Dabney Saunders
 Frances Elizabeth Savage
 Rae Ellen Schmall
 Joan Carol Schroeder
 Judith Abby Schwartz
 Pamela Ann Schwarz
 Mary Elizabeth Scribner
 Sarah Helen See
 Susan Field Senneff
 Priscilla Anne Sewall
 Marjorie Joy Sherk
 Jacqueline Anne Shonerd
 Linda Frances Siegel
 Eudora Lina Simmons
 Tone Audhild Skinningsrud
 Jean Dalrymple Smith
 Katherine Bowman Smith
 Shelley Patricia Smith
 Nancy Louise Snowdon
 Caroline Jenks Soleliac
 Myra May Specthrie (Wilson)

Miriam Ruth Spiller
 Penny Louise Spinner
 Michele Beryl Stahl
 Jane Stamper
 Amy English Stanley
 Susan Stanley
 Fanny White Staunton
 Barbara Louise Steere
 Nancy Hall Stephenson
 Sharyn Ann Stepner
 Anne Muse Strickland
 Anne MacKean Strong
 Marilyn Susan Swartz
 Frederika Estrada Sykes

Jacqueline Coral Tacy
 Helen Brightwell Taft
 Ann Hollis Taliaferro
 Jane Deborah Taylor
 Kathryn Eloise Taylor
 Alison Val Teal
 Gladys Gale Thompson
 Joan Nancy Thompson
 JoAnne Eleanor Towell
 Katharine Dallas Townsend
 Elizabeth Jane True
 Margaret Josephine Turner
 Julia Ann Turnquist

Anne Ulanov (Pietrasanta)
 Jennifer Compton Urquhart

Ruth Ann Van Dyke
 Cornelia Eva van Geel
 Caroline Lovell Vest
 Abby Camilla von der Heyde
 Ann Lee von Weise

Elizabeth Jane Wallace
 Elisabeth Crane Washburn

1966 AWARDS

Nancy Lynn Watkins
 Pamela Watson
 Roberta Joyce Weiner
 Sally Joan Weiss
 Hope Weld
 Susan Stafford Werner
 Elizabeth Claire Wesman
 Dorothy Tufts Wheeler
 Lynore Mary White
 Prudence Owen White
 Harriet Alden Whitman
 Nancy Louise Whittier
 Charlotte Suzanne Ward Wiggers
 Elizabeth Bolling Wilcox
 Dorothy Louise Wiley
 Mary Christine Wilkinson
 Marcia Joan Williams
 Marcia Jane Williamson
 Romney Lee Willson
 Catherine Turner Wilson
 Dolores Anne Wilson
 Jean Susan Winter

Judith Libby Wishny
 Wendy Barth Wolff (Susco)
 Alice Heebner Wood
 Ann Woodbridge
 Greta Ann Woodward
 Mary Ann Wright
 Cynthia Jeanne Wurdack
 Wendy Susan Wyman

Elizabeth Louise Yanginski
 Anne Marie Yinkey
 Judith Anne Young
 Katherine Ruth Young
 Linda Diana Young

Constance Mary Zack (Malinowski)
 Elaine George Zahos
 Emily Anne Zapata
 Susan Jane Zevon
 Doris Jeanne Zorensky
 Melanie Louise Zybala

With distinction

*Pamela Jane Cuming
 *Joellyn Toler Duesberry
 *Patricia Jane Hoffman
 *Mary Christine Krogh

†*Emma Hsiang Tsin Lin
 †*Susan Katherine Low
 *Leslie Nova Selden
 *Anna Louise Victor

HONORS

Cum Laude

Nancye Belding, *Sociology*
 Polly Spencer Burke, *History*
 Barbara Zita Chasen, *English*
 *Anna Maynard Craig, *Economics*
 *Jane Leslie Dalton, *History*

- *Susan Irene Dunn, *French*
 *Amy Wolfner Edmonds, *Economics*
 Ann Campbell Eglin, *Government*
 Phyllis Mildred Endreny, *History*
 Abigail Kathryn Finch, *French*
 Catharine Stayton Forbes, *English*
 Faith Ellen Ford, *Economics*
 Loretta Kay Fowler, *Sociology*
 Diana Frank, *Sociology*
 Carol Lynn Gerstl, *Economics*
 Ann Dexter Gordon, *History*
 Laura Mavis Gordon, *Russian*
 Bonnie Fraser Gregg, *Economics*
 Virginia Tague Grimes, *French*
 Sharon Elizabeth Harper, *Art*
 Susan Hedy Hewman, *Government*
 Lois Devore Hoffman, *Government*
 Deborah Chamberlain Johnson, *History*
 Judith Ann Johnson, *History*
 Diana Lee Kopp, *History*
 *Nancy Ellen Larkin, *French*
 Wingate Main, *Sociology*
 Patricia Ann Manning, *Government*
 Barbara Ann Metzger, *English*
 *Barbara Jane Mook, *Government*
 Janice Lyn Murray, *History*
 Aruna Nayyar, *Government*
 Anne Beaufort Noel, *History*
 Anne Margaret Palmbaum, *History*
 Pamela Stagg Potter, *Government*
 Mary Clara Price, *History*
 Diana May Raskin, *French*
 Janet Elizabeth Rhoads, *Music*
 †Nancy Lee Role, *Mathematics*
 †Evelyn Regina Roth, *Psychology*
 Janet Elizabeth Ruben, *Government*
 †Barbara Ellen Schulman, *Mathematics*
 †Ann Hinda Shapiro (Zartler), *Psychology*
 Dixie Rebecca Snow, *History*
 †Virginia Mary Soret, *Zoology*
 Mary Ann Spieczny, *American Studies*

1966 AWARDS

- Judith Ann Stern, *Music*
 †Ella May Thomson, *Botany*
 Elaine Trebach, *History*
 Barbara Kay Tuggle, *French*
 Alice van Buren, *English*
 †*Ann Montgomery Veirs, *Mathematics*
 †Mary Micala Viola, *Psychology*
 Mary Lisbeth Wachendorf, *Economics*

Magna cum laude

- †*Kathryn Adelberg, *Psychology*
 *Sylvia Martha Berman, *Sociology*
 †*Edith Anne Blumenthal, *Mathematics*
 Judith Susan Bronstein, *Sociology*
 Linda Carol Cornell, *History*
 *Barbara Elaine Girshoff, *Music*
 †*Nancy Enid Glaubinger, *Mathematics*
 †Lynn Ann Hasher, *Psychology*
 Constance Diane Kandel, *History*
 *Barbara Ann Katz, *Government*
 *Gail Cecilia Kern, *English*
 *Carolyn Wilker Korsmeyer, *Philosophy*
 *Linda Carol Kridel, *Government*
 *Karen Elizabeth Kuntz, *Government*
 *Jane Margaret Lakes, *Government*
 *Margaret Fuller Lawson, *Government*
 *Laraine Rita Leberfeld, *English*
 *Cornelia Morgan Mendenhall, *Economics*
 Virginia Jay Meyer, *Government*
 *Kathleen Middlekauff, *Economics*
 *Mary Nolan, *History*
 †*Jane Catherine Purcell, *Mathematics*
 †*Barbara Jane Reeves, *Physics*
 *Susanne Frances Roberts, *History*
 *Susan Jane Steinberg, *History*
 *Michele S. Sviridoff, *English*
 Susan Carol Woolfson, *History*

1966 AWARDS

M.E.D.

- Marjory E. Bainton, B.A., Colorado University, 1965.
John William Butler, A.B., Asbury College, 1964.
Susan Eileen Butler, B.S., State University College at Geneseo, New York, 1965.
Carol Geo Chapman, B.S. in Ed., University of Vermont, 1959.
Karen Sue Cole, B.A., University of Denver, 1962.
Muriel Louise Crockett, B.A., University of Massachusetts, 1958.
Anne Marie Cussen, B.A., Merrimack College, 1965.
Carolyn Viva English, B.S.E., Baldwin-Wallace College, 1962.
Helen Jean Friend, B.S., Ohio State University, 1965.
Judith Diane Garner, B.A., North Texas State University, 1964.
Teh-Yeh Hwang, B.A., Taiwan Normal University, 1956.
Karen Marie Jensen, B.S. in Ed., Northern Illinois University, 1964.
Wayne Larry Johnson, B.S. in Ed., State College at Fitchburg, 1965.
Frieda A. Lenchanko, B.A., Loretto Heights College, 1964.
Martha Dempsey Noffsinger, B.S., University of Idaho, 1958; M.A., University of Michigan, 1963.
Candace Ann Smullen, B.S., Purdue University, 1965.
Carmen Medinaceli Tupas, B.S.E., Arellano University, Manila, 1947.
Robert Carruth Van Dyke, B.S., University of Utah, 1963.
Barbara Kaye Wyman, B.A., University of Massachusetts, 1958.

DIPLOMA IN AMERICAN STUDIES

- Elisabeth Frühauf
Roberta Ravaioli, Bocconi University, Milan.
Joronn Stabo, Diploma, Oslo Commercial College, 1965.
Bonalda Stringher, Laurea in Lettere, University of Rome, 1965.
Dela von Boeselager, Abitur, Neusprachliches Mädchengymnasium Pützchen, 1963.

M.S. IN PHY. ED

- Jean Marie Bouton, B.S. in Ed., Tufts University, 1959.
Carol Cooper, B.S., Oregon State University, 1961.
Martha Evelyn Curtis, B.S., The Woman's College of Georgia, 1964.
Sally Diane de Smidt, B.A., University of Stellenbosch, South Africa, 1956.
Evelyn Anne Dye, B.A., Lake Forest College, 1963.
Janet Loretta Ficke, B.S., Adelphi University, 1959.
Mary Park Morison, A.B., Pennsylvania State University, 1954.
Elizabeth Petrakis, B.S., Wisconsin State University, La Crosse, 1959.
Wendy Joyce Willett, B.S. in Ed., Tufts University, 1962.

1966 AWARDS

ED. M.

- Patricia LeBlanc Brecher, B.A., Goddard College, 1961.
Deborah Ann Brown, A.B., Smith College, 1965.
Janet Smith Easton, B.S. in Ed., Wheelock College, 1962.
Gwendolyn Marie Green, B.A., Dillard University, 1963.
Joanne Ebert Marsden, A.B., Smith College, 1965.
Sue Blackledge Pacini, A.B., Smith College, 1965.

M.A.T.

- Suzanne Perkins Brentlinger, B.A., University of Chicago, 1957. Art.
Ruth Hope Kamen, B.A., University of Wisconsin, 1964. English.
Erline D. Laramée, B.A., Anna Marie College, 1964. Botany.
Gene Carter Lettau, B.S., Simmons College, 1953. German.
Edwina Earle Palmer, B.A., Spelman College, 1964. Music.
Susie Powell Sherk, B.A., Bennett College, 1964. English.
Margaret Jane Stacy, B.A., Winthrop College, 1964. History.
Meredith Dobyms Steffa, A.B., Mount Holyoke College, 1964. Zoology.

A.M.

- Marjorie Killian Bannish, B.S., George Washington University, 1963. Chemistry.
Maria-Paz Sanz Beltran, A.B., Maryknoll College, Philippines, 1963. Psychology.
Margot Anne Biery, A.B., Smith College, 1964. German.
Olive G. Faber, B.A., Calvin College, 1960. Music.
Judy Dale Hall, B.A., Illinois Wesleyan University, 1964. Chemistry and Zoology.
Harold Royal Hinds, B.S., University of Massachusetts, 1963. Botany.
Charlotte Loh, B.S., Taiwan Christian College, 1963. Chemistry.
Kirsty P. MacCalman, B.A. (Honours), University of Sussex, England, 1965.
History.
Elizabeth Berry Mongrolle, A.B., Smith College, 1959; M.A.T., Smith College, 1963.
French.
Tomoko Ohashi, B.A., International Christian University, Tokyo, 1964. Psychology.
Jo-anna Rae Simpson, B.A., Miami University, Ohio, 1964. Geology.
Barbara A. Spengler, B.S., Dickinson College, 1964. Bacteriology.
Judith B. Tredwell, B.A., Hollins College, 1964. Chemistry.

PH. D.*

- Güniz, Emine Günay, B.A., American College for Girls, Istanbul, 1960; A.M.,
Smith College, 1962. Chemistry.

*The degree is awarded by the University of Massachusetts in cooperation with
Amherst College, Mount Holyoke College, and Smith College.

1966 AWARDS

HONORARY DEGREES

Helen Sinclair Pittman '21		Doctor of Science
	<i>General Practitioner</i>	
Elizabeth Mary Wilkinson		Doctor of Laws
	<i>Literary Critic and Interpreter of Goethe</i>	
Mary Clabaugh Wright		Doctor of Laws
	<i>Historian of Modern China</i>	
Mary Locke Petermann '29		Doctor of Science
	<i>Biochemist and Explorer of the Cell</i>	
Hannah Arendt		Doctor of Laws
	<i>Scientist and Philosopher of Politics</i>	

1966 AWARDS

SCHOOL FOR SOCIAL WORK DEGREES

August, 1966

D.S.W.

- Thomas John Powell, B.S., M.S.W., Boston College, 1958, 1960.
Carolyn Bierce Thomas, B.SC. IN SOC. ADM., M.A. IN SOC. ADM., Ohio State University, 1949, 1952.
Allyn Zanger, A.B., Brooklyn College, 1957; M.S.S., Adelphi College, 1959.

M.S.W.

- Joan Evelyn Stein Abbey, A.B., Boston University, 1964.
Georgina Rita Anglade, A.B., MacMurray College, 1954.
Irene Gail Asekoff, A.B., Goucher College, 1964.
Florence Zweifel Bookhultz, A.B., Willamette University, 1936; M.A., Wellesley College, 1937.
Marian Alice Capen, A.B., Grinnell College, 1964.
George Warren Caulton, B.A., American International College, 1961.
Carolyn Elizabeth Chattin, A.B., Capital University, 1964.
Panayota Georgiou Christaki, Diploma, Orlinda Childs Pierce College, 1963.
Mary Jane Coffee, B.SC. IN OCC. THER., Ohio State University, 1953.
Lindarose Cortell, A.B., Skidmore College, 1964.
Janet Gail Darcy, B.A., University of Connecticut, 1963.
Darryle Ann Davis, A.B., Finch College, 1962.
Carolyn Lee Dillon, A.B., Duke University, 1962.
Elizabeth Sue Dooley, B.A. IN SOC. WORK, University of Oklahoma, 1937.
Sarah Frances Eggleston, A.B., Randolph-Macon Woman's College, 1962.
Kenneth John Esposito, B.B.A., Washburn University, 1964.
Cathleen Anne Fitzgerald, A.B., University of Vermont, 1962.
Carol Joyce Dankowski Fitzsimmons, A.B., Western Reserve University, 1963.
Penny Millicent Freedman, A.B., Douglass College, 1963.
Marie Josephine Gately, B.A., Diploma in Social Studies, University of Keele, 1955; Certificate in Applied Social Studies, London School of Economics and Political Science, 1959.
Ruth Alexander Gordon, B.A., Columbia College, 1958; B.D., Emory University, 1961.
Judith Elaine Kerstetter Guthrie, A.B., Clark University, 1964.
Mary Frances Hall, A.B., Otterbein College, 1964.
Brigid Ruth Moira Henry, Certificate in Social Studies, Certificate in Medical Social Work, University of Edinburgh, 1957, 1959.

1966 AWARDS

- Catharine Margaret Hirst, Diploma in Social Studies, The University, Leeds, 1950;
Certificate, The Institute of Almoners (London), 1951.
- Charlotte Rose Holena, A.B., Hunter College, 1965. (Class of 1961)
- Elizabeth Marquetand Hopkin, B.A., Wellesley College, 1964.
- Susan Huba, A.B., University of Pittsburgh, 1964.
- Helen Icea Huraj, B.A., Sir George Williams University, 1957.
- Joyce Annette Wright Jackson, A.B., Howard University, 1964.
- Linda Janet Johnston, A.B., Luther College, 1963.
- Margaret Elizabeth Kovacs, B.A., University of Connecticut, 1957.
- Rosabelle LaPlace, B.S., Douglass College, 1956.
- Patricia Lockhart Lay, A.B., Meredith College, 1964.
- Rose Scoca Leon, A.B., College of New Rochelle, 1943.
- Elizabeth Ann Liben, A.B., New York University, 1964.
- Fred Donald Mazor, B.B.A., City College of New York, 1959.
- Barbara Jeanne Leslie Melton, A.B., DePauw University, 1964.
- Ruth Parfet Metz, B.S.ED., Marywood College, 1963. (Class of 1945)
- Alice Mary Michael, A.B., Thiel College, 1964.
- Margaret Ruth Bundschuh Morrison, A.B., Hope College, 1964.
- Janet Sue Neer, A.B., William Jewell College, 1963.
- Song Hae Oh, B.A., Ewha Womans University, 1963.
- Irene Keturah Oldt, A.B., Susquehanna University, 1954.
- Kathleen Mary Orlando, B.S., University of New Hampshire, 1964.
- Kyung Cha Shin, A.B., University of California, 1964.
- Carroll Earhart Smith, A.B., University of Pittsburgh, 1964.
- Karen Ann Sommer, B.S., Cornell University, 1964.
- Shirley Ann Stauffer, A.B., Western Maryland College, 1964.
- Carol Lynn Steinfeldt, A.B., Brandeis University, 1964.
- Linda Marie Stephenson, B.S., University of Georgia, 1964.
- Bertha Marie Stokley, A.B., Bennett College, 1964.
- Joanna Burnstine Strauss, A.B., Radcliffe College, 1961.
- Elaine Cohen Sullum, A.B., Hunter College, 1947.
- Jane Thomas, A.B., Radcliffe College, 1963.
- Ellen Louise Thompson, A.B., Grinnell College, 1964.
- Milagros Joven Tria Tirona, B.S. IN S.W., Centro Escolar University, 1959.
- Petronella Catharina Josephina Maria van Leeuwen, Certificate for Social Work,
Catholic School for Social Work (Eindhoven), 1949; Certificate, Institute for
Advanced Social Studies (Nijmegen), 1963.
- Jean Ellen Verthein, B.A., University of Wisconsin, 1962.
- Carol Ann Weinberg, A.B., Miami University, 1961; A.M., Stanford University, 1962.
- Joan Carolyn Ridley Willis, A.B., University of Toledo, 1964.
- A. Diana Zacarian, A.B., Boston University, 1964.
- Judith Ann Zetzel, A.B., University of Chicago, 1964.

Smith College School for Social Work

THE STAFF

HOWARD J. PARAD, M.S. IN S.S.

ESTHER H. CLEMENCE, M.S.S.

†HELEN PINKUS, M.S.S.

ROGER R. MILLER, D.S.W.

GERALDINE L. CONNER, D.S.W.

EUNICE F. ALLAN, M.S.S.

SIDNEY L. WASSERMAN, D.S.W.

SOPHIE GLEBOW, D.S.W.

GRACE GANTER, D.S.W.

MARY K. KEELEY, M.S.

ANNE O. FREED, M.S.S.

CAROLYN B. THOMAS, D.S.W.

ELIZABETH C. JOHNSON, B.S.

BETTY H. VOGEL, M.S., M.ED.

Director and Professor of Social Work

Director of Field Work

Associate Professor of Social Work

Assistant Director of Field Work

Associate Professor of Social Work

Director of Research

Associate Professor of Social Work

*Editor, Smith College Studies in
Social Work*

Associate Professor of Social Work

Associate Professor of Social Work

Associate Professor of Social Work

Associate Professor of Social Work

Associate Professor of Social Work

Associate Professor of Social Work

Assistant Professor of Social Work

Assistant Professor of Social Work

Executive Secretary and Registrar

Assistant Executive Secretary

ORGANIZATION OF THE SCHOOL

The Smith College School for Social Work was organized in 1918 as a graduate school in which to prepare psychiatric social workers for the war emergency. During 1918 and 1919 an intensive course of theory and a period of supervised practice were given to those who were graduated. They at once found their places in hospitals and social agencies. It was soon recognized that an approach to problems of social maladjustment through an understanding of the personalities involved was valid for every form of social casework. The Smith School therefore continued after the war emergency as a graduate professional school of social work and became a charter member of the Council on Social Work Education.

The first decade of the growth of the School corresponded to the period when the mental hygiene movement was enlarging its scope to include greater focus on mental illness and mental defect, prevention of delinquency, and the development of child guidance clinics. Psychiatric social workers were then eagerly sought for hospitals, community clinics, and for preventive mental hygiene work in courts, schools, and the public services. There is an even greater demand for today's graduates, who have a rich range of professional opportunities, under both governmental

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

and voluntary auspices, in many fields of practice, including child guidance clinics and child welfare services, delinquency and correctional programs, family counseling services, hospital and rehabilitation centers, psychiatric clinics, public assistance programs, and school social work departments.

MASTER OF SOCIAL WORK

Educational Plan

The educational plan of the Smith College School for Social Work is based on the premise that there is a basic core of knowledge and skill in social work which transcends the specializations. The educational program is so planned as to offer sound orientation in the broad aspects of social work and the development of professional competence in the practice of social casework. Graduates are prepared to hold casework positions in a wide variety of private and public agencies and to advance to supervisory and administrative responsibilities.

Classroom Instruction

Academic study is designed to provide such knowledge from the disciplines of medicine, psychiatry, psychology, law, and the social sciences as is required for the practice of social work. The courses in the methods of social casework integrate this factual knowledge and develop the principles and skills inherent in practice. Other courses in the broad field of social work cover theory and method in such areas as public welfare, child welfare, group work, administration, and community organization. Basic considerations in carrying on research in social casework are reviewed in a course that serves as an introduction for individual work on a thesis.

In order to carry out this educational policy the curriculum consists of a relatively few units of instruction covering basic areas rather than being broken up into many elective courses. For example, the basic course in public welfare aims to develop a sound comprehension of the scope and objectives of the field and to give a working knowledge of the varied individual programs on the federal, state, and local levels as they operate to meet the total needs of individuals. In the same way the casework courses demonstrate the application of casework principles in family casework, child welfare, psychiatric social work, and medical social work.

Courses offered in any one term are planned as a sequence and to achieve a total integration. Emphasis is placed on the discussion rather than the lecture method of teaching in the endeavor to train for independent and resourceful thinking. The educational process is strengthened by the fact that all the students live together on the campus of Smith College during the summer session and thereby are encouraged in continuous group thinking, mutual criticism, and discussion of the problems in the field of social work.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Field Instruction

Field work is an integral part of the curriculum, and academic credit is given for it. Students are assigned to agencies in small groups for a long and continuous practice period. This enables the student to become a participating member of the agency and community, and furthers the development of a professional attitude and point of view. Responsible participation under guidance during the field work gives opportunity to develop competence and self-reliance in casework practice.

Fifty-four agencies in twenty-two cities are affiliated with the School. These are located in large urban centers such as Community Service Society in New York, Judge Baker Guidance Center in Boston, and in smaller communities, thereby providing contrasting experience in the two winter field placements. Students are placed under a supervisor who is highly qualified as practitioner and teacher. Members of the staff, administrators, consulting psychiatrists, and research specialists participate in the educational program. These factors assure good theoretical teaching as well as the acquisition of sound and skillful methodology.

Carefully selected and supervised reading is assigned to supplement and enrich the practice period in the field. In addition to individual instruction each agency is asked to offer a seminar throughout the winter.

During the field work period, thesis subjects are selected and developed under the guidance of members of the School faculty. The preparation of a thesis is regarded as part of a student's training for a profession that looks to research for advancement of its theory and practice.

Continuous supervision from the School is maintained throughout the field work period by regular visits of faculty.

Curriculum

Plan A covers three summer sessions in academic study on the Smith campus and two winter field work sessions in agencies selected by and responsible to the School for the provision of a sound educational experience.

Plan B covers two summer sessions of academic study at the School and an intervening winter session in field work. It is designed for students who have had adequate graduate preparation or satisfactory supervised employment in an approved casework agency.

Plan C admits persons for a single summer session. Full credit will be given toward the degree provided the student is accepted for readmission to complete the course within a period of two years.

The School *Bulletin* giving full details for the coming year will be sent upon request.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Degrees

The Trustees of Smith College, on the recommendation of the faculty, grant the degree of Master of Social Work (M.S.W.) on the following conditions: (a) completion of the period of residence, namely, a minimum of three sessions of full-time work; (b) satisfactory completion of the courses required, unless exempted by examination when advanced work may be substituted; (c) satisfactory completion of a thesis. Information concerning the Doctor of Social Work (D.S.W.) is given on page 232.

Admission

The Smith College School for Social Work is open to men and women graduates of approved colleges who have completed at least twenty semester hours in the social and biological sciences. Inquiries and requests for applications for admission should be addressed to the Committee on Admission, Smith College School for Social Work, Northampton.

Expenses

The fee for each summer session is \$500 which covers tuition, room, and board. For each winter session the fee is \$300.

During the periods of field work the students are personally responsible for their own maintenance and may not accept salaried positions.

Scholarships

A number of special stipends and scholarships are available for students accepted by the School. Certain hospitals offer internships which cover all living expenses of students; field work agencies grant several scholarships to apply toward maintenance. Several stipends of \$1,800 to \$3,165 (plus tuition) are granted, upon recommendation of the School, by the United States Department of Health, Education, and Welfare and other governmental agencies. No qualified candidate should be discouraged from making application because of financial limitations.

Calendar 1967-1969

First Session	June to September 1967
Second Session	September 1967 to June 1968
Third Session	June to September 1968
Fourth Session	September 1968 to June 1969
Fifth Session	June to September 1969

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Seminars

The School offers a series of two-week seminars in July open to experienced social workers and limited to twenty-five members. The seminars are conducted on the discussion method under the leadership of outstanding practitioners.

PROGRAM OF ADVANCED STUDY

The Program of Advanced Study is open to graduates of approved schools of social work who have completed a minimum of three years of practice in a qualified casework agency and who demonstrate capacity for increased responsibility and leadership. The Program consists of a third postgraduate year of clinical study and practice leading to a certificate, and a new clinical doctorate leading to the degree of Doctor of Social Work (D.S.W.). Scholarship aid is available for qualified students.

Third-Year Certificate

This sequence offers formal course instruction, supervised clinical experience, and independent study. Seminars in casework and psychiatry are designed to improve the student's mastery of casework principles through a deepened understanding of the dynamics of personality and social environment and methods of treatment. Seminars in teaching method and administrative process examine the educational and psychological principles involved. Agencies, clinics, and hospitals that are outstanding as teaching centers are used for field work.

Doctor of Social Work

The doctoral sequence, which includes three summers and two winters, is oriented to the advanced preparation of casework practitioner-investigators. The program of study offers formal course instruction, supervised clinical practice, clinical research training, and opportunity to pursue a formal independent investigation. Designed to enhance career efforts to discover and articulate knowledge about practice theory and methods, this sequence includes additional special seminars in social science and research.

Alumnae Association

Officers

President, MRS PETER GAMAGE, Harbor Avenue, Marblehead, Mass. 01945

Vice-President, MRS ROBBINS MILBANK, School House Farm, Nelson P.O. Marlboro, N.H. 03455

Clerk, MRS ROGER E. TITUS, Shore Acres, South Dartmouth, Mass. 02748

Treasurer, MRS MARTIN B. O'CONNOR, 1 DeWitt Road Elizabeth, N.J. 07208

Directors:

MRS HAROLD U. ANDREAE, 311 N. Drexel Road, Columbus, Ohio 43209
(Chairman of Clubs)

MRS HENRY CHAUNCEY, Rosedale Road, Princeton, N.J. 08541

MRS E. THAYER DRAKE, 6 Ardsley Terrace, Irvington, N.Y. 10533 (Finance
Chairman)

MRS SHERIDAN P. HARRIS, 174 Willow Lane, Chagrin Falls, Ohio 44022

MISS NELL HIRSCHBERG, 1500 Park Drive, Raleigh, N.C. 27605

MRS STANLEY R. MORTON, 5 Wheeler Avenue, Worcester, Mass. 01609 (Fund
Chairman)

MRS MICHAEL PENNINGTON, 483 Edgewood Drive, St. Louis, Mo. 63105

MISS ELIZABETH ROBINTON, 96 State Street, Northampton, Mass. 01060 (Educa-
tion Chairman)

MRS JOHN B. STEVENS, 20 Strawberry Hill, Wallingford, Conn. 06492

MRS STEPHEN B. WELLINGTON, 21 Sylvan Avenue, West Newton, Mass. 02165

MRS SEYMOUR E. WHELOCK, 370 Ash Street, Denver, Colo. 80220 (Chairman of
Classes)

General Secretary, MRS JOHN SCOTT STELLA, Alumnae House, Northampton, Mass. 01060

General Secretary Emeritus, MISS FLORENCE H. SNOW, 179 Prospect Avenue, Princeton,
N.J. 08541

General Secretary Emeritus, MRS CLIFFORD P. COWEN, 61 Crescent Street, Northamp-
ton, Mass. 01060

Editor-in-chief of the Alumnae Quarterly, MRS SOLON ROBINSON, 60 Washington Avenue,
Northampton, Mass. 01060

Honorary Editor Alumnae Quarterly, MISS EDITH N. HILL, 36 Bedford Terrace, North-
ampton, Mass. 01060

THE ALUMNAE OFFICE

FRANCES ALDEN COPELAND, A.B.

JANET EDNA DOBBS

ESTHER PROFFITT FARRELL

BEATRICE CORNELL GUTFINSKI

ELEANOR HOWARD

Associate Secretary

Director of Alumnae House

Assistant

Assistant

Assistant

ALUMNAE ASSOCIATION

MARY LOUISE BIERKAMP KEOGH, A.B.	<i>Alumnae Coordinator</i>
ANNE CAHILL MAHER	<i>Assistant</i>
MARY DYKE MICKIEWICZ	<i>Assistant</i>
LAVERNE SEEWALD O'CONNOR	<i>Assistant</i>
KATHLEEN NORTON SUCHOCKI	<i>Assistant</i>
LOUISE COONEY WHITTIER, A.B.	<i>Assistant</i>
GLADYS RATTELL WOLOSS	<i>Assistant</i>

PRESIDENTS OF SMITH CLUBS

Alabama

Birmingham, Mrs Clifford Lamar, 3136 Pine Ridge Road (35213)

Arizona

Phoenix, Mrs Peter Kruidenier, 7514 Clearwater Parkway (85018)

Tucson, Mrs Samuel Bowditch, 4002 East Cooper Street (85711)

California

Bay Area League, Mrs Harrison Dibblee, Jr., Box 184, Ross (94957)

East Bay, Mrs William F. Ganong, 710 Hillside, Albany (94706)

Marin County, Mrs Edward A. McCrum, 132 Cypress Avenue, Kentfield (94904)

Peninsula, Mrs William H. Curtiss, Jr. 457 Whiskey Hill Road, Woodside (94062)

San Francisco, Mrs Norman A. Zilber, 235 Presidio Avenue (94115)

Los Angeles, Mrs Russell L. Holmes, 4700 Louise Avenue, Encino (91316)

Orange County, Mrs Frederick R. McBrien, 1812 Antigua Circle, Newport Beach (92660)

Pasadena, Mrs Paul A. Erskine, 1410 Lomita Drive (91106)

San Diego, Mrs Robert R. Newman, 2107 Balfour Court (92109)

Santa Barbara, Mrs Campbell Grant, 1880 Cravens Lane, Carpinteria (93013)

Canada

Montreal and Province of Quebec, Mrs Laurier La Pierre, 75 Chesterfield Avenue, Westmount (6)

Toronto, Mrs Donald C. Baillie, 20 Wychwood Park (4)

Colorado

Mrs Harry S. Silverstein, 1040 Pontiac Street, Denver (80220)

Connecticut

Darien-New Canaan, Mrs George H. Dixon, Jr., 125 Greenley Road, New Canaan (06840)

Eastern, Mrs Robert P. Anderson, Jr., 19 Latham Lane, Noank (06344)

Eastern Fairfield County, Mrs Philip H. Smith, 18 Cold Spring Road, Easton (06612)

ALUMNAE ASSOCIATION

Connecticut (Cont.)

- Greenwich*, Mrs Allan F. Ayers, Jr., Meadow Road, Riverside (06878)
Hartford, Mrs Emerson E. White, 68 Harvest Lane, West Hartford (06117)
New Haven, Mrs Frank Kenna, Perkins Road, Woodbridge (06525)
Western, Mrs Wilbur H. Caney, Jr., 75 Woodbury Road, Watertown (06795)

Delaware

- Mrs Frederic A. Lang, R.F.D. 1, Landenberg, Pa. 19350

D.C., Washington

- Mrs Richard M. Powell, 7407 Ridgewood Avenue (20015)

England

- London*, Mrs Arthur P. C. Lyons, 24 Frogmal Lane (N.W. 3)

Florida

- Fort Lauderdale*, Mrs Lawrence B. Taylor, Hillsboro Mile Tower, Apt. 35, 1035 A-1-A Highway, Pompano Beach (33062)
Jacksonville, Mrs R. Holmes Tucker, 3127 Doctor's Lake Drive, Box 35A, Orange Park (32073)
Miami, Mrs Bernard Beber, 8960 S.W. 56th Terrace (33165)
Palm Beaches, Mrs John E. Smith, 811 Palmer Road, Delray Beach (33435)
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Winter Park-Orlando, Mrs Richard H. Hart, 1012 Catalpa Lane, Orlando (32806)

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North Side, Mrs Charles S. Potter, 209 Lake Shore Drive (60611)
South Side, Dorothy Hayes, 1367 E. 53rd Street (60615)
West Suburban, Mrs DeWitt Stillman, 117 S. Park Avenue, Hinsdale (60521)

Indiana

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ALUMNAE ASSOCIATION

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Mrs John McC. Finley, 6570 General Diaz Street, New Orleans (70124)

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ALUMNAE ASSOCIATION

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San Antonio, Mrs Jack E. Finks, 777 Terrell Road (78209)

Vermont

- Mrs William A. Onion, Castleton (05735)

Virginia

- James River*, Mrs Francis V. Lowden, 110 College Road, Richmond (23229)

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- Seattle*, Mrs J. Vernon Williams, 1226 Federal Avenue, E. (98102)

Wisconsin

- Madison*, Mrs Leonard P. Eager, Jr., 236 W. Main Street, Evansville (53536)
Milwaukee, Mrs Gerson C. Bernhard, 1100 E. Circle Drive (53217)

Summary of Students in College

1966-1967

FRESHMAN CLASS (1970)	580
SOPHOMORE CLASS (1969)	597
JUNIOR CLASS (1968)	604
France	23
Guest Students	4
Geneva	29
Guest Students	11
Germany	6
Guest Students	4
Italy	7
Guest Students	3
Spain	10
Guest Students	5
Out of residence	3
Leave of absence for study abroad—Philippines	5
SENIOR CLASS (1967)	545
Out of residence	5
TOTAL UNDERGRADUATES	2326
GRADUATE STUDENTS	123
FOUR-COLLEGE STUDENTS	129
GRADUATE	25
UNDERGRADUATE	104
NON-MATRICULATED STUDENTS	2
TOTAL	2580

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1967	Class of 1968	Class of 1969	Class of 1970	Graduate Students
Alabama	2	0	2	1	0
Alaska	1	0	0	0	0
Arizona	2	1	2	4	0
Arkansas	1	1	2	1	0
California	19	21	26	16	5
Colorado	3	5	4	6	1
Connecticut	66	53	42	44	3
Delaware	4	2	4	2	0
District of Columbia	7	6	11	8	0
Florida	4	5	10	6	0
Georgia	4	2	4	2	0
Hawaii	3	1	1	2	2
Idaho	1	1	0	0	0
Illinois	25	25	34	20	2
Indiana	1	7	11	4	1
Iowa	4	0	4	5	2
Kansas	0	5	2	4	1
Kentucky	5	4	3	5	0
Louisiana	2	4	6	1	2
Maine	2	7	8	8	0
Maryland	17	20	14	20	0
Massachusetts	64	104	84	89	51
Michigan	4	11	8	9	2
Minnesota	8	12	10	9	1
Mississippi	2	1	0	0	1
Missouri	8	10	8	8	1
Montana	4	2	0	0	0
Nebraska	2	1	1	1	0
New Hampshire	5	7	4	9	0
New Jersey	55	54	41	42	1
New Mexico	0	3	1	2	1
New York	92	92	104	111	16
North Carolina	3	3	3	6	1
North Dakota	0	1	1	0	0
Ohio	33	23	37	27	2
Oklahoma	3	5	3	2	0
Oregon	2	2	5	2	0

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1967	Class of 1968	Class of 1969	Class of 1970	Graduate Students
Pennsylvania	21	29	34	38	1
Rhode Island	3	10	3	5	1
South Carolina	1	0	3	1	0
South Dakota	0	1	0	0	0
Tennessee	7	5	6	3	1
Texas	14	5	7	6	1
Utah	0	0	0	0	1
Vermont	4	8	7	8	2
Virginia	15	17	15	17	1
Washington	3	6	0	5	2
West Virginia	0	0	1	3	2
Wisconsin	2	4	4	3	0
Wyoming	0	0	1	1	0
	<hr/> 528	<hr/> 586	<hr/> 581	<hr/> 566	<hr/> 108

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1967	Class of 1968	Class of 1969	Class of 1970	Graduate Students
Bermuda	2	0	0	0	0
Brazil	1	1	0	1	0
Canada	3	5	2	7	1
Canal Zone	0	1	0	0	0
Colombia	0	0	1	1	0
Egypt	0	0	1	0	0
England	1	0	1	1	0
France	0	2	0	0	1
Germany	1	0	1	0	1
Greece	2	0	0	0	0
Holland	0	0	0	1	0
Hong Kong	0	0	2	0	0
India	1	0	0	1	1
Italy	0	1	1	0	0
Ivory Coast	1	1	0	0	0
Japan	0	2	0	0	1
Kenya	0	0	2	0	0
Korea	0	1	0	0	1
Libya	0	0	0	1	0
Mexico	0	0	1	0	0
Panama	0	0	1	0	0
Peru	0	0	1	0	0
Philippines	0	0	0	0	1
Poland	0	0	0	0	1
Puerto Rico	0	0	0	1	0
Singapore	1	0	0	0	0
South Vietnam	0	1	1	0	0
Spain	1	0	0	0	0
Switzerland	1	0	0	0	0
Syria	0	0	1	0	0
Taiwan	0	0	0	0	1
Turkey	1	2	0	0	1
Venezuela	0	0	0	0	1
Virgin Islands	1	1	0	0	0
	17	18	16	14	13



Schedule of Midyear Examinations for the Year 1966-67

This schedule should be consulted before courses are elected.

Sectioned courses in which there are *no hours of meeting in common* for all the students of the course are *listed separately*. All other courses for which scheduled hours are given in the course descriptions are included within the appropriate time blocks (see chart, p. 247).

Examinations for courses not yet scheduled will be arranged before the examination period.

	<i>Friday, Jan. 20</i>	<i>Saturday, Jan. 21</i>	<i>Monday, Jan. 23</i>
8:00-10:20	Courses in Block K	Courses in Block L and Music 111	Courses in Block B
10:45-1:05	Courses in Block F	Courses in Block V and Economics 110a	German 111b German 111 German 112 Italian 111b Italian 111 Russian 101 Russian 111b Russian 121 Russian 231 Spanish 100 Spanish 101 Spanish 102 Spanish 103 Spanish 212
2:30-4:50	French 111b French 112 French 213 French 222a French 216 French 226 French 311a	Courses in Block J and Music 221	Courses in Block E

Schedule of Midyear Examinations for the Year 1966-67

Continued

	<i>Tuesday, Jan. 24</i>	<i>Wednesday, Jan. 25</i>	<i>Thursday, Jan. 26</i>
8:00-10:20	Courses in Block C	Courses in Block M	Courses in Block U and English 214a Religion 210a
10:45-1:05	Courses in Block Y and Philosophy 111a Philosophy 121a Philosophy 124a	Courses in Block X and Psychology 101a	Mathematics 103a Mathematics 104a Mathematics 202a
2:30-4:50	Courses in Block W and English 114a English 115a English 116a English 218a	Courses in Block D	Courses in Block A

NOTICE

The scheduled hours of classes and hours to be used at the option of the instructor are indicated following the descriptions of courses. Students may not elect more than one course in the time blocks outlined in the accompanying chart, except in rare cases which involve no conflict (e.g., Economics 110a, b, and Government 100). Assignments to sections and laboratory periods are made by the Registrar. Where scheduled hours are not indicated, the times of meeting are arranged by the instructor.

CLASS SCHEDULE

Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
Assembly					
A			D		
B			E		
C				F	

J		J-L	L	
K		K-M	M	
†	U	Reserved for Meetings.	V-M	†
			V	

W	†	X	Y	†
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† Reserved for College lectures, concerts, and other events.

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FORMS OF BEQUESTS

Gifts to the College may be restricted to certain uses as endowed funds or additions to material equipment, or may be given without restriction. Donors may discuss special conditions pertaining to a bequest with the College Treasurer.

UNRESTRICTED BEQUEST

I give, devise, and bequeath to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts, the sum of.....dollars, to be applied to the general uses and purposes of the said institution.

RESTRICTED BEQUEST

I give and bequeath to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts, the sum of.....dollars (to be known as the.....Fund); the principal to be added to the endowment funds of the College and the income to be used for.....* (or, "the principal to be used for the building of a....."; or, "the principal to be used for improvements to the.....").

RESIDUARY CLAUSE

I give and bequeath and devise to The Trustees of the Smith College, a charitable corporation established under the laws of the Commonwealth of Massachusetts, all the rest, residue and remainder of my estate whether real, personal or mixed wherever situate and to which I may be legally or equitably entitled at my decease; or over which I have any power of disposition; (to be known as the.....Fund; to be used for.....; etcetera).

CONTINGENCY CLAUSE

In case of the failure or lapse of any legacy or devise herein such that the property so bequeathed or devised would pass by intestacy, I direct that in lieu thereof such property shall pass to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts.

*e.g., scholarships, faculty improvement, etc.



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Smith College Bulletin

The Catalogue Number

1967-1968

NORTHAMPTON, MASSACHUSETTS

Visitors

Visitors are always welcome at the College. Student guides, whose headquarters are College Hall 2, are available for conducting tours of the campus. Their services may be reserved in advance by application to the Board of Admission.

Candidates for admission and pre-college students are urged to secure appointments in advance with the Director or Associate Director of Admission and, if they are interested in scholarship and self-help opportunities, with the Director of Financial Aid.

Administrative offices in College Hall are open Monday through Friday from 8:30 A.M. to 4:30 P.M. At other times, including holidays, officers and staff are available only if an appointment is made in advance.

Correspondence

Inquiries of various types concerning Smith College may be made of the following officers and their staffs, either by mail or by interview. The post office address is Northampton, Massachusetts 01060.

ADMISSION OF STUDENTS: Miss Jane Sehmman, *Director*

RESIDENCE & GENERAL WELFARE OF STUDENTS: Miss Helen L. Russell, *Dean of Students*

SCHOLARSHIPS, LOANS, & WORK: Mrs Linton H. Foster, *Director of Financial Aid*

GRADUATE STUDY & FELLOWSHIPS: Mr Kenneth W. Sherk, *Director*

FOREIGN STUDENTS: Mrs Joan M. Bramwell, *Chairman of the Committee*

HEALTH OF STUDENTS: Dr Elizabeth Grimm, *College Physician*, 69 Paradise Road

ACADEMIC STANDING:

Class of 1971, Mrs Joan M. Bramwell

Class of 1970, Mrs George Cohen

Classes of 1968 and 1969, Mrs Michael Olmsted, *Assistant Dean*

PAYMENT OF BILLS: Mr Robert L. Ellis, *Treasurer*

DEVELOPMENT & PUBLIC RELATIONS: Mr Herbert N. Heston, *Director*

TRANSCRIPTS & RECORDS: Mrs Helen B. Bishop, *Registrar*

PUBLICATIONS: Mr Russell F. Carpenter, *Secretary of the College*

SCHOOL FOR SOCIAL WORK: Mr Howard J. Parad, *Dean*

ALUMNAE AFFAIRS: Mrs John Scott Stella, *General Secretary*, Alumnae House

ALUMNAE REFERENCES: Miss Alice N. Davis, *Director of the Vocational Office*

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1967

1968

1969

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9	10	11	12	13	14	15
16	17	18	19	20	21	22
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30	31					

AUGUST

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OCTOBER

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NOVEMBER

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JANUARY

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DECEMBER

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JANUARY

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FEBRUARY

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MARCH

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APRIL

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MAY

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JUNE

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College Calendar

FIRST SEMESTER, 1967-1968

TUESDAY, SEPTEMBER 19, 9:00 A.M., First Chapel and Upperclass Registration

WEDNESDAY, SEPTEMBER 20, 9:00 A.M., Classes begin

MOUNTAIN DAY (*holiday*), To be announced by the President

MONDAY, OCTOBER 30, 8:40 A.M. – SATURDAY, NOVEMBER 4, 6:00 P.M.,
Independent Study

WEDNESDAY, NOVEMBER 22, 12:50 P.M. – MONDAY, NOVEMBER 27, 8:40 A.M.,
Thanksgiving Recess

FRIDAY, DECEMBER 22, 8:00 A.M. – THURSDAY, JANUARY 4, 8:40 A.M.,
Winter Recess*

THURSDAY, JANUARY 4, 8:40 A.M. – MONDAY, JANUARY 15, Reading Period

TUESDAY, JANUARY 16 – FRIDAY, JANUARY 19, Pre-examination Study

SATURDAY, JANUARY 20 – FRIDAY, JANUARY 26, Midyear Examinations

SATURDAY, JANUARY 27 – WEDNESDAY, JANUARY 31, 8:40 A.M., Midyear Recess

SECOND SEMESTER, 1967-1968

WEDNESDAY, JANUARY 31, 8:40 A.M., Classes begin

SATURDAY, FEBRUARY 24, Rally Day

WEDNESDAY, MARCH 20, 8:00 A.M. – MONDAY, APRIL 1, 8:40 A.M., Spring Recess

SUNDAY, MAY 5 – THURSDAY, MAY 16, Reading Period

FRIDAY, MAY 17 – MONDAY, MAY 20, Pre-examination Study

TUESDAY, MAY 21 – MONDAY, MAY 27, Final Examinations

SUNDAY, JUNE 2, Commencement

*On Wednesday, December 20, classes will meet according to the regular schedule for Thursdays; on Thursday, December 21, they will follow the schedule for Fridays.

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*Term
expires*

- | | | |
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| 1968 | J. SEELYE BIXLER, PH.D., D.D., D.C.L., L.H.D., LL.D. | Jaffrey, New Hampshire |
| 1968 | RUTH SEARS CHUTE, A.M. | Brookline, Massachusetts |
| 1968 | VIRGINIA CLEGG GAMAGE, A.B. | Marblehead Neck, Massachusetts |
| 1969 | HARVEY BROOKS, PH.D., SC.D. (HON.) | Cambridge, Massachusetts |
| 1969 | HELEN HUBERTH KEENE, A.B. | Scarsdale, New York |
| 1969 | DOROTHY NEPPER MARSHALL, PH.D. | Bryn Mawr, Pennsylvania |
| 1969 | CONSTANCE MORROW MORGAN, A.M. | Ridgefield, Washington |
| 1970 | ALBERT H. GORDON, A.B., M.B.A. | New York City |
| 1970 | ELIZABETH BELL HIGGINBOTHAM, A.B. | Dallas, Texas |
| 1970 | FREDERICK SHEFFIELD, A.B., LL.B. | New York City |
| 1971 | ELIZABETH FITZGERALD CUTLER, A.B. | Milwaukee, Wisconsin |
| 1971 | ROBERT S. INGERSOLL, B.S. | Chicago, Illinois |
| 1972 | ERNESTINE GILBRETH CAREY, A.B. | Scottsdale, Arizona |
| 1972 | EDWARD H. DECONINGH, A.B., S.B. | Cleveland, Ohio |
| 1972 | H. BRADFORD WASHBURN, JR., A.M., PH.D. (HON.), SC.D. (HON.) | Cambridge, Massachusetts |

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ROBERT LEE ELLIS, A.B., M.B.A., <i>Treasurer and Controller</i>	Northampton

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H. LOUISA BILLINGS, A.M.	<i>Associate Professor Emeritus of Physics (1947)</i>
SUSAN MILLER RAMBO, PH.D.	<i>Professor Emeritus of Mathematics (1948)</i>
ELEANOR SHIPLEY DUCKETT, PH.D., D.LITT., L.H.D.	<i>Professor Emeritus of Classical Languages and Literatures (1949) and Sophia Smith Fellow</i>
ELIZABETH FAITH GENUNG, M.S. IN AGR.	<i>Associate Professor Emeritus of Bacteriology (1950)</i>
ABBIE MABEL O'KEEFE, M.D.	<i>Associate Physician Emeritus (1950)</i>
ARTHUR WARE LOCKE, A.M.	<i>Professor Emeritus of Music (1952)</i>
ESTHER LOWENTHAL, PH.D.	<i>Professor Emeritus of Economics (1952)</i>
AGNES CARR VAUGHAN, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures (1952) and Sophia Smith Fellow</i>
KATE RIES KOCH, A.M., M.L.D.	<i>Associate Professor Emeritus of Landscape Architecture (1952)</i>
ANACLETA CANDIDA VEZZETTI, DOTTORE IN FILOSOFIA E PEDAGOGIA	<i>Associate Professor Emeritus of Italian Language and Literature (1952)</i>
GERTRUDE GOSS	<i>Associate Professor Emeritus of Physical Education (1952)</i>
SAMUEL RALPH HARLOW, PH.D., L.H.D., LITT.D.	<i>Professor Emeritus of Religion and Biblical Literature (1953)</i>
VERA A. SICKELS, A.M.	<i>Professor Emeritus of Speech (1953)</i>
ELIZABETH ANDROS FOSTER, PH.D.	<i>Professor Emeritus of Spanish Language and Literature (1953)</i>
ROBERT MERRILL DEWEY, A.M.	<i>Secretary Emeritus of the Faculty (1953)</i>

Explanation of marks before instructors' names: †absent for the year; *absent for the first semester; **absent for the second semester; §Director of a Junior Year Abroad; †appointed for the first semester; ‡appointed for the second semester.

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DIPLOMA IN ANTHROPOLOGY

*Associate Professor Emeritus of Religion
and Biblical Literature (1954) and
Sophia Smith Fellow*

MYRA MELISSA SAMPSON, PH.D.

Professor Emeritus of Zoology (1955)

MARY ELLEN CHASE, PH.D.,
LITT.D., L.H.D.

*Professor Emeritus of English Language
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HAROLD UNDERWOOD FAULKNER,
PH.D., L.H.D.

Professor Emeritus of History (1955)

HALLIE FLANAGAN DAVIS,
A.M., L.H.D., D.F.A.

Professor Emeritus of Drama (1955)

K. FRANCES SCOTT, PH.B., M.D.

*Associate Professor Emeritus of
Hygiene (1955)*

MIGUEL ZAPATA Y TORRES, PH.D.

*Associate Professor Emeritus of Spanish
Language and Literature (1957)*

WILLIAM BEAUMONT SCATCHARD,
B.MUS., B.S.

*Associate Professor Emeritus of
Music (1957)*

SETH WAKEMAN, PH.D.

*Professor Emeritus of Education and
Child Study (1958)*

VERA BROWN HOLMES, PH.D., LITT.D.

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C. PAULINE BURT, PH.D., SC.D. (HON.)

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BENJAMIN MARTIN SHAUB, PH.D.

*Associate Professor Emeritus of Geology
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MARGARET ALEXANDER MARSH, A.M.

*Professor Emeritus of Sociology and
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ESTHER CLOUDMAN DUNN, PH.D., LITT.D.

*Professor Emeritus of English Language
and Literature (1960)*

CLARENCE KENNEDY, PH.D.

Professor Emeritus of Art (1960)

DOROTHY SEARS AINSWORTH,
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*Professor Emeritus of Physical
Education (1960)*

MADELEINE GUILLOTON, LIC. ÈS. L., A.M.

*Associate Professor Emeritus of French
Language and Literature (1960)*

SARA BACHE-WIIG, PH.D.

*Associate Professor Emeritus of
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FRANCES CAMPBELL MCINNIS, A.M., M.D.

Associate Physician Emeritus (1960)

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*Professor Emeritus of Spanish Language
and Literature (1961)*

Professor Emeritus of Theatre (1961)

*Professor Emeritus of French Language
and Literature (1961)*

*Professor Emeritus of French Language
and Literature (1961)*

*Professor Emeritus of French Language
and Literature (1961)*

*Professor Emeritus of Italian Language
and Literature (1961)*

Professor Emeritus of History (1961)

Professor Emeritus of Art (1961)

*Associate Professor Emeritus of Russian
Language and Literature (1961)*

*Assistant Professor Emeritus of French
Language and Literature (1961)*

Professor Emeritus of Psychology (1962)

*Professor Emeritus of French Language
and Literature (1962)*

Professor Emeritus of Physics (1962)

*Professor Emeritus of English Language
and Literature (1962)*

*Associate Professor Emeritus of Theatre
and Speech (1962)*

*Professor Emeritus of French Language
and Literature (1963)*

Professor Emeritus of History (1963)

*Professor Emeritus of Spanish Language
and Literature (1963)*

Professor Emeritus of Music (1963)

Professor Emeritus of Music (1963)

*Associate Professor Emeritus of Spanish
and Portuguese Languages and
Literatures (1963)*

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IDA DECK HAIGH

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*Professor Emeritus of Italian Language
and Literature (1964)*

*Professor Emeritus of English Language
and Literature (1964)*

*Associate Professor Emeritus of
Music (1964)*

*Director Emeritus of Scholarships
and Student Aid (1964)*

*Professor Emeritus of Physics (1965)
and Sophia Smith Fellow*

Professor Emeritus of Zoology (1965)

*Professor Emeritus of French Language
and Literature (1965)*

*Associate Professor Emeritus of Physical
Education (1965)*

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College Archivist Emeritus (1965)

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and Literature (1966)*

*Professor Emeritus of Religion and
Biblical Literature (1966)*

*Professor Emeritus of Education
and Child Study (1966)*

Professor Emeritus of Philosophy (1966)

Professor Emeritus of Music (1966)

*Professor Emeritus of Theatre
and Speech (1966)*

*Visiting Research Professor of Physics
Retired (1966) and Sophia Smith Fellow*

Professor Emeritus of Music (1967)

*Professor Emeritus of German Language
and Literature (1967)*

Professor Emeritus of Music (1967)

*Professor Emeritus of English Language
and Literature (1967)*

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Director of the Smith College Museum of Art

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D.SC. (HON.), D.PHARM. (HON.)

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*William Allan Neilson Professor
of Chemistry*

*William Allan Neilson Professor
of History*

Professor of Music

College Physician

Professor of Art

*Professor of English Language
and Literature*

*Professor of Classical Languages
and Literatures*

Director of Choral Music

Sophia Smith Professor of Art

Professor of Art

Professor in the Biological Sciences

Professor of History

Librarian

Professor of Physics

Professor of Art

Professor of Art

Professor of Music

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Professor of Music

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*Sophia and Austin Smith Professor
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Post Professor of Art*

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JANE SEHMANN, A.M.

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Professor of History and of Art

*Professor of Economics and Assistant
to the President*

Professor of Economics

Gates Professor of Mathematics

Professor of Physical Education

*Helen and Laura Shedd Professor
of Russian Language and Literature*

Professor of Hispanic Studies

Professor of Government

*Dean of the Smith College School
for Social Work and Professor
of Social Work*

*Professor of English Language
and Literature*

*Professor of English Language
and Literature*

*Esther Cloudman Dunn Professor
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*Professor of Education and Child Study
and Director of Preschool and Elemen-
tary School Teacher Preparation*

*Elizabeth Drew Visiting Professor
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Professor in the Biological Sciences

Professor of Sociology and Anthropology

Professor of History

Dean of Students

Dwight W. Morrow Professor of History

*Professor of German Language
and Literature*

Director of Admission

*Physician, Psychiatrist, Director of the
Counseling Services, and Lecturer
in Psychology*

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GRACE PAULINE ASSERSON, A.B.	<i>Employment Manager</i>
RUSSELL FIELD CARPENTER, B.A.	<i>Secretary of the College</i>
BRUCE THEODORE DAHLBERG, B.D., PH.D.	<i>Secretary of the Faculty</i>
FLORENCE MACDONALD, A.B.	<i>Secretary to the President and Secretary of the Board of Trustees</i>
ELEANOR WHITE ZAPATA, A.B.	<i>Secretary to the Dean</i>
DORIS SNODGRASS DAVIS, M.S., M.A.	<i>Assistant to the Dean of Students and Adviser to Foreign Students</i>
JACK WILLIAM SIMPKIN, B.S., B.A.	<i>Assistant Treasurer</i>
LOUIS RICHARD MORRELL, B.S.	<i>Assistant Controller</i>
WARREN FREBUN WHITE	<i>Auditor</i>
A. VINCENT ERIKSON, B.S.	<i>Rental Manager</i>

ADMINISTRATION

EVELYN BELDEN, B.A.

CHARLOTTE G. COHEN, B.B.A.

YECHIAEL ELIES LANDER, B.H.L., M.A.

AVE MARIE MCGARRY, M.A.

NANCY COOK STEEPER, A.B.

RUTH WILLS BIRKHOFF, A.B.

ALICE CATHERINE KEATING, A.B.

GRACE THORN FARJEON, A.B.

CAROLINE ELIZABETH SEATON, A.B.

CHARLES A. EDWARDS, A.B.

JOSEPH M. HOBBS, B.S.

THOMAS A. KELLEY, JR., A.B.

IRENE W. O'DONNELL, A.B.

PATRICIA S. WINSHIP, B.A.

MALCOLM DICKINSON FRINK

EDWARD S. KOWALSKI

MARJORIE J. LANG

LEROY BACON CLAPP

THOMAS C. O'CONNELL

WILLIAM I. P. CAMPBELL

NORMAN BERNIER

RUTH A. CARSON, M.A.

JAMES V. MOLLOY

PHYLLIS ANNA REINHARDT, A.M., S.M.

ERNA GOLDSTAUB HUBER

MARY MILLWARD ANKUDOWICH, A.B., B.S.

Assistant to the Registrar

Secretary to the Committee on Graduate Study

Associate Chaplain

Associate Director of Admission

Assistant Director of Admission

Assistant Director of Admission

Secretary to the Director of Admission

Associate Director of the Vocational Office

Associate Director of the Vocational Office

Assistant Director of Development

Assistant Director of Development

Assistant Director of Development

Assistant to the Director of Development

Assistant for Publications

Purchasing Agent

Assistant Purchasing Agent

Assistant Purchasing Agent

Assistant to the Purchasing Agent

College Electronics Technician

Horticulturist

Director of Food Services

Head Dietitian

Security Officer

*Curator of Books and Photographs,
Department of Art*

Curator of Slides, Department of Art

Music Librarian

THE LIBRARY

MARGARET LOUISE JOHNSON, A.B., B.S.

WINIFRED RANDALL ALSOP, A.B., M.S.

PATRICIA J. DELKS, A.B., M.S.

GRACE FRANCES HOLT, B.A., B.L.S.

Librarian

Science Librarian

Reference Librarian

Head of the Serials Department

ADMINISTRATION

DOROTHY KING, A.M., A.B.L.S.	<i>Curator of Rare Books</i>
EDITH MARGARET LIBBY, A.B., A.M.L.S.	<i>Head of the Order Department</i>
JANICE B. DAILY, A.B.	<i>Head of the Documents Department</i>
EDWINA ELY PEARSON, B.S.	<i>Head of the Reserve Book Room</i>
RUTH RICHASON RICHMOND, A.B.	<i>Assistant in Charge of Gifts and Exchanges</i>
MILDRED C. STRAKA, A.B., M.S.	<i>Head Cataloguer</i>
E. MARIE W. WIKANDER, B.A., M.S. IN L.S.	<i>Head of the Circulation Department</i>

ARCHIVES AND SOPHIA SMITH COLLECTION

MARCIA WILLIAMS BRADLEY, A.B.	<i>Archivist and Director of the Sophia Smith Collection</i>
ELIZABETH SEDGWICK DUVAL, B.A., B.S.L.S.	<i>Bibliographer and Consultant for the Sophia Smith Collection</i>

THE SMITH COLLEGE MUSEUM OF ART

CHARLES SCOTT CHETHAM, PH.D.	<i>Director</i>
ALDEN MURRAY, A.B.	<i>Assistant Director</i>
ANNE R. MANNARINO, A.B.	<i>Secretary to the Director</i>
ANNA H. KENNICK, A.B.	<i>Registrar</i>
MIRA M. FABIAN, A.B.	<i>Curatorial Assistant</i>
WILDA S. CRAIG	<i>Museum Members Secretary</i>

THE SMITH COLLEGE DAY SCHOOLS

NELSON R. OHMART, ED.M.	<i>Director of the Day Schools</i>
ELSIE HARRIET KOESTER, A.M.	<i>Coordinator of the Lower School</i>
ISABEL REYMES KING, A.M.	<i>Master Teacher and Coordinator of the Preschool</i>
ISABEL MOORE ARNOLD, M.S.	<i>Master Teacher</i>
JANICE RAE BROWN, ED.M.	<i>Master Teacher</i>
ALICE R. BUTLER, ED.M.	<i>Master Teacher</i>
DORIS FRENCH DORSCH, ED.M.	<i>Master Teacher</i>
NEIL GLIDDEN, B.A.	<i>Master Teacher</i>
ELIZABETH RUGGLES HAMILTON, A.B.	<i>Master Teacher</i>
ISABEL ANDERSON HOLDEN	<i>Master Teacher</i>

ADMINISTRATION

RITA JULES	<i>Master Teacher</i>
SHAUNEEN SULLIVAN KROLL, A.B.	<i>Master Teacher</i>
MURIEL ANNETTE LOGAN, ED.M.	<i>Master Teacher</i>
MARGARET PEASE, A.M.	<i>Master Teacher</i>
PATRICIA A. ROTMAN, B.A.	<i>Master Teacher</i>
MARIANNE MORRELL SIMPKIN, M.A.T.	<i>Master Teacher</i>
FLORENCE DUVAL SMITH, A.M.	<i>Master Teacher</i>
WILLIAM J. SULLIVAN, M.ED.	<i>Master Teacher</i>
BARBARA CURTIS BAKER, B.S.	<i>Teacher</i>
DALE E. MACDONALD, B.A.	<i>Teacher</i>
MARGARET MCCARTHY, A.B.	<i>Teacher</i>
INGRID H. MITCHELL, M.A.T.	<i>Teacher</i>
SARAH R. BAGG, A.B.	<i>Assistant Teacher</i>
CARLTON LINWOOD BEAL, JR., M.S.	<i>Assistant Teacher</i>
ROBERTA B. HESTON, A.B.	<i>Assistant Teacher</i>
JUDITH KELDSSEN, A.B.	<i>Assistant Teacher</i>
JEAN V. KITELEY, B.A.	<i>Assistant Teacher</i>
CLAIRE CUTTEN MANWELL, A.B., M.D.	<i>Physician</i>

HEALTH SERVICE

ELIZABETH GRIMM, M.S., M.D.	<i>College Physician</i>
PAUL HAROLD SETON, A.B., M.D.	<i>Physician and Psychiatrist</i>
MARY FRANCES BROWN, A.M., M.D.	<i>Associate Physician</i>
HERMAN EDELBERG, A.B., M.D.	<i>Associate Physician</i>
VERA A. JOSEPH, B.A., M.D.	<i>Associate Physician</i>
EILEEN KATHLEEN EDELBERG, M.D.	<i>Assistant Physician</i>
BETTY BAUM, M.S.S.	<i>Student Counselor</i>
NORMA EVELYN NELSON, M.S.S.	<i>Associate Student Counselor</i>
KENNETH A. SMITH, JR., M.P.H.	<i>Director of Environmental Health and Director of Safety</i>

THE INFIRMARY

RUTH SHAVER BROWN	<i>Administrator of the Infirmary</i>
JOAN M. COSTELLO, B.S., R.N.	<i>Coordinator of the Nursing Services and Acting Public Health Nurse</i>
WILHELMINA POOR, M.S.B., R.N.	<i>Director of Nursing In-patient Service</i>
EILEEN B. MURPHY, B.A. (A.R.X.T)	<i>Laboratory and X-ray Technician</i>
ANNE M. KINGSBURY, B.S.	<i>Laboratory Technician</i>
GLADYS D. MARTIN	<i>Dietary Supervisor</i>
VIRGINIA B. DELANEY	<i>Medical Record Librarian</i>

ADMINISTRATION

HEADS OF HOUSE

DOROTHY J. AVERILL
 MARGARET M. BABCOCK, A.B.
 ALICE MOFFATT MITCHELL CADEAU
 PAULINE C. CHANDLER
 ANNE R. CHAPLIN
 LAURA K. COUGHLAN, R.N.

DOROTHY F. EDMONDS

MARIETTA S. EDMONDS
 ADELE M. FULLER
 LOUISE HARRAN
 ELIZABETH KIRKHAM HAWKINS, B.A.
 RUTH B. HESSE
 KRYSZYNA JAWOROWSKA
 W. GRACE KING
 IRENE KNAPP
 KATHERINE M. LEIGHTON, A.B.
 LOUISE H. MACCONNELL
 ELIZABETH MACKENZIE
 MILDRED MCILVAINE
 ALICE E. NICELY
 ANNE S. NICHOLSON
 MURIEL S. PARKER
 EMMY M. PONTZEN
 MARION F. RUMPF
 MARY SANDOZ
 RUTH J. SEARLS
 MARY L. SHAW, A.B.
 ELIZABETH H. SIDDALL, B.S.
 ELEANOR SMART
 MARY WHEATLEY STREET
 EDITH L. THOMAS
 ELLEN H. THORN, B.A.
 REBECCA E. WEDGWOOD, A.B.
 MARGARET WELTON
 DORIS I. WILL
 MAUDE F. WOODBURY
 DORIS MCKAY WOODS
 ESTHER R. WOODWARD, B.A., M.S.
 CONSTANCE WYCKOFF

Albright House
Ellen Emerson House
Gardiner House
Morris House
Hubbard House
8 Bedford Terrace and
Elizabeth Drew House
Laura Scales House and Acting
Director of Davis Student Center
Jordan House
Lamont House
Wilder House
Lawrence House
Tyler House
Talbot House
Morrow House
Chapin House
Sessions House
Dewey House, Clark House
Capen House
Sessions House
Baldwin House
Gillett House
Albright House
Martha Wilson House
Parsons House, Parsons Annex
Dawes House
Hopkins Group
Franklin King House
Talbot House
Comstock House
Tenney House
Morris House
Jordan House
Park House, Park Annex, 150 Elm Street
Washburn House
Cutter House
Haven House, Wesley House
Cushing House
Northrop House
Ziskind House

STANDING COMMITTEES OF THE FACULTY

I. ON THE ORGANIZATION OF THE COLLEGE

COMMITTEES (*elected*)

The President, the Dean, Mr Offner (1968), Mr Mitchell (1968), Mr Dimock (1969), Mr Hay (1969).

TENURE AND PROMOTION (*elected*)

The President (*Chairman*), the Dean, Miss Robinton (1968), †Mr Weinstein (1969), Miss Gertrude Smith (1969), Mr Cohn-Haft (1971), Mr de Villafranca (1972). Substitute for one year: Mr Cohen.

FACULTY CONFERENCE (*elected*)

Mr Harris (1968), **Mrs Hoyt (1969), †Mr McCartney (1970), **Miss Kenyon (1971), Mr Rowe (1972). Substitute for one year: Mrs Dickinson. Substitutes for second semester: Miss Auerswald, Mr MacSherry.

FACULTY PLANNING

Mr Henderson (*Chairman*), †Mr Chinoy, Mr de Villafranca, Mr Kiteley, Miss Lincoln, †Mrs Musgrave, Mr Offner, Mr Rothman.

ADMINISTRATIVE BOARD

The Dean (*Chairman*), the Dean of Students, the Class Deans, the Assistant Dean, the Registrar, the College Physician, Mr Cavitch, Mr Hill, Mr Robinson.

BOARD OF ADMISSION

The President (*Chairman*), the Dean, Miss Schmann, Miss McGarry, Miss Russell, Mrs Bramwell, Mrs Cohen, Mr Gotwals, Mr Hawkins, **Miss Navarro, †Miss Randall, Miss Schnieders, Miss Shook, Mr Teghtsoonian.

REGISTRATION OF STUDENTS

Miss Newhof (*Chairman*), Miss Clute, Miss Benson.

CONFERENCE

The President, the Administrative Board, five members of the Student Council, four members of the House of Representatives.

II. CURRICULUM AND GUIDANCE OF STUDENTS

EDUCATIONAL POLICY (*elected*)

The President, the Dean (*Chairman*), Mrs Dickinson (1968), Mr Hellman (1968), Mrs Kelley (1968), Mr Harward (1969), Miss Bates (1969), Mrs von Klemperer (1969), Mr Averitt (1970), Mr Lawrence Fink (1970), Mr Henderson (1970).

*Absent for the first semester

**Absent for the second semester

†Absent for the year

COMMITTEES OF THE FACULTY

FOREIGN STUDENTS

Mrs Bramwell (*Chairman*), Mr Durham, Mr Haddad, Mr Ortega, Miss Weed, Mrs Davis, Mrs Foster.

GRADUATE STUDY

Mr Sherk (*Chairman*), the President, Mr Collignon, Mrs Chinoy, Mr Lawrence Fink, Mr Haskell, Miss Kenney, Miss Mott, Mr Sheehan, Mrs Bramwell.

HONORS

**Miss Kenyon (*Chairman, 1st semester*), Mr von Klemperer (*Chairman, 2nd semester*), the President, the Dean, Mr Averitt, Mr Burk, Mr Connelly, Mr William MacDonald, Mr Steinberg.

STUDY ABROAD

The Dean (*Chairman*), the President, the Assistant Dean, the Chairmen of the Departments of Art, French, German, Government, Hispanic Studies, History, Italian, the Treasurer, the Secretary of the Smith College Junior Year Abroad.

III. OTHER COLLEGE BUSINESS

AID TO FACULTY SCHOLARSHIP (*elected*)

The Dean (*Chairman*), the President, the Assistant to the President, Miss Bates (1968), †Mr McCartney (1969), Mr Aaron (1970), Mr Rose (1971), Mrs Olmsted (*Secretary*). Substitute for one year: Mr Hellman.

FACULTY OFFICES

Mr Derr (*Chairman*), Mr Jahnige, Miss Weed.

FINANCIAL AID

The President (*Chairman*), the Dean, the Dean of Students, the Director of Financial Aid, the Treasurer, Mr Hatch, Mr Spees, Mr Teghtsoonian.

HONORARY DEGREES

Mrs von Klemperer (*Chairman* (1968), Mr Rose (1969), *Miss Horner (1970). Substitute for first semester: Mr Josephs.

JUNIPER LODGE

Miss Jean Wilson (*Chairman*)

LECTURES

Mr Rowe (*Chairman*), Mr Aaron, Mr Connelly, Mr Gussin, Mr Rose, Mr Walker, Mr Wilson, Mr Carpenter (*Secretary*).

LIBRARY

Miss Jean Wilson (*Chairman*), the Librarian, Mr Burger, Mr Ellis, Mr William MacDonald, Mr Naegele.

COMMITTEES OF THE FACULTY

MARSHALS

Mr Sherk, †Miss Randall (College Marshals), Miss Benson, **Miss Navarro, Miss Elinor Smith, †Mr Van Voris, Mr Judson, Mr Stenson.

MOTION PICTURES

Mr Cohen (*Chairman*), *Miss Afferica, Mr Connelly, Mr Lambert, Mr Harris, Mr Stern, Mrs Cantarella (*Secretary*).

CHAIRMEN OF ACADEMIC DIVISIONS

- I THE HUMANITIES: Miss Schnieders
- II SOCIAL SCIENCES AND HISTORY: Mr Cohn-Haft
- III NATURAL SCIENCES AND MATHEMATICS: Mr Spees

History of Smith College

Smith College began in the conscience of a New England woman. The sum of money with which the first land was bought, the first buildings erected, and the foundations of the endowment laid was the bequest of Sophia Smith who, finding herself at the age of sixty-five the sole inheritor of a large fortune, left it for the founding of a college for women because after much perplexity, deliberation, and advice, she had concluded that thus she could best fulfill a moral obligation.

The advice had its inception in the mind of a New England minister. From John Morton Greene, Sophia Smith received suggestions which she pondered and discussed, and from among which she finally accepted that which we must acclaim as the wisest and most beneficent. The idea that Mr. Greene presented and Sophia Smith adopted is clearly expressed in a passage in Sophia Smith's will that must be regarded as their joint production, drafted by him, amended and approved by her. The language is as follows:

I hereby make the following provisions for the establishment and maintenance of an Institution for the higher education of young women, with the design to furnish for my own sex means and facilities for education equal to those which are afforded now in our Colleges to young men.

It is my opinion that by the higher and more thorough Christian education of women, what are called their "wrongs" will be redressed, their wages adjusted, their weight of influence in reforming the evils of society will be greatly increased, as teachers, as writers, as mothers, as members of society, their power for good will be incalculably enlarged.

Later, after enumerating the subjects which still form a vital part of the curriculum of the College, she adds: "And in such other studies as coming times may develop or demand for the education of women and the progress of the race, I would have the education suited to the mental and physical wants of woman. It is not my design to render my sex any the less feminine, but to develop as fully as may be the powers of womanhood, and furnish women with the means of usefulness, happiness and honor, now withheld from them." She further directed that "without giving preference to any sect or denomination, all the education and all the discipline shall be pervaded by the Spirit of Evangelical Christian Religion."

When one considers what would today be regarded as the somewhat narrow and puritanical type of culture in which the authors of these sentences were living, one cannot fail to be impressed by their wisdom, liberality, and farsightedness. The general terms in which the purposes of women's education are defined are perfectly

NOTE:—Among the sources of this account are the historical addresses given by President William Allan Neilson on the Fiftieth Anniversary and by Ada Comstock Notestein '97 (former Dean of Smith and President of Radcliffe) on the Seventy-Fifth Anniversary of the College.

HISTORY OF SMITH COLLEGE

valid today. Provision is made for change of outlook and development in the scope of education. While the fundamentally religious interest of the founder is stressed, the College is kept clear of entanglement with institutional Christianity.

I

It is one thing to state an ideal and give a commission, it is another to carry them out. Laureus Clark Seelye in 1873 undertook the presidency of the new college, and in 1875 Smith College was opened with fourteen students. His inaugural address laid down the main lines of educational policy on which the new college was to run, and again it is amazing to note how little these have to be modified to describe the College of today. There is the same high standard of admission, matching that of the best colleges for men, the same breadth in the curriculum, the same interest in literature, art, music, and what are now classed as the natural and social sciences. What we are less likely to note is the faith needed to establish these standards and to stick to them in an atmosphere of skepticism and ridicule.

For thirty-five years President Seelye carried the College forward. Its assets grew from the original bequest of about \$400,000 to over \$3,000,000; its faculty from half a dozen to one hundred twenty-two; its student body from fourteen to 1635; its buildings from three to thirty-five. These figures are a testimony to his remarkable financial and administrative ability, yet they are chiefly important as symbols of a greater achievement. With few educational theories—none of them revolutionary—he had set going a process for the molding of the minds and spirits of young women, had supervised the process for a generation, and had stamped upon several thousand graduates the mark of his own ideals and his own integrity.

II

It is hard to follow the king, and the problem which faced President Seelye's successor was no easy one. The growth of the College had acquired a strong momentum, and numbers increased of themselves; Marion Le Roy Burton's task was to perfect the organization for taking care of these numbers. This meant the modernizing of the business methods of the administration, the improvement of the ratio of instructors to students, the raising of salaries to retain and improve the staff, the providing of more adequate equipment, and the revision of the curriculum. The seven years of his service saw the further growth of the College to over 1900 students, the increase of its assets by over \$1,000,000, and substantial progress in educational efficiency. The business reorganization was well begun when in 1917 President Burton accepted the presidency of the University of Minnesota.

III

Now one of the largest women's colleges in the world, Smith College faced problems which it shared with both colleges and universities. President William Allan Neilson set about to develop all the advantages which only a large institution can offer, and at the same time to avoid any disadvantages which might be inherent in

HISTORY OF SMITH COLLEGE

the size of the institution. While the number of instructors was constantly increased, the number of students was held to approximately two thousand. With the construction of further dormitories, each one of them housing sixty or seventy students in accordance with the original "cottage plan" of the founders, it became possible for all students to live "on campus." An expanded administrative system provided a separate Dean for each college class, a staff of five resident physicians, and a Director of Vocational Guidance and Placement. In addition, the curriculum was revised under President Neilson's guidance in order to provide a pattern still familiar in institutions throughout the country: a broad general foundation in various fields of knowledge followed by a more intensive study of a major subject.

There were other innovations. The School for Social Work resulted from a suggestion that the College give training in psychiatric social work and thus serve in the rehabilitation of veterans of World War I. The Smith College Day School and the Elisabeth Morrow Morgan Nursery School gave students in education a field for observation and practice teaching. The Junior Years Abroad, Special Honors programs, and interdepartmental majors in science, landscape architecture, and theatre added variety and incitement to the course of study.

Yet the great contribution of President Neilson's long administration did not lie in any of these achievements or in their sum. In his time Smith College came to be recognized in America and abroad not only as a reputable member of the academic community but as one of the leading colleges of this country, whether for men or women. Its position in the front rank was established. Its size, its vigor, the distinction of its faculty, and the ability of its alumnae were factors in this recognition; but a certain statesmanlike quality in its President had much to do with bringing it to the fore whenever academic problems were under discussion. Wherever Mr. Neilson went, his ability to penetrate to the heart of a question helped to clarify thinking, dissipate prejudice, and foster agreement; and the College rose with him in the estimation of the educational world and of the country.

IV

The fourth administration of Smith College began, like the third, in a time of international conflict, under the cloud of wars and rumors of wars. President Neilson retired at the end of the academic year 1938-39; during the interregnum Elizabeth Cutter Morrow served her college as Acting President and earned its deep gratitude. At the opening of the year 1940-41, President Herbert Davis, formerly Professor of English at the University of Toronto and at Cornell University, took office.

The college went into year-round session in order to allow for acceleration on an optional basis; members of the faculty and staff were called into many fields of government service. The Navy Department invited Smith College to provide facilities for the first Officers' Training Unit of the Women's Reserve, and between August, 1942, and the closing of the school in January, 1945, more than ninety-five hundred women received their commissions.

HISTORY OF SMITH COLLEGE

After the war, the College returned to its regular calendar, and a revised curriculum proposed by a Faculty Committee was adopted. Much-needed building projects were carried out. Among them was a new heating plant and the establishment of a student recreation hall which, at the request of the students, was named Davis Center in honor of their president, shortly before he left in June, 1949 to accept a post at Oxford University.

V

The anniversary year 1949-50 opened under President Benjamin Fletcher Wright, formerly Professor of Government at Harvard University and Chairman of that University's Committee on General Education. The Inauguration of the President and the Convocation in honor of the seventy-fifth year, held jointly on the 19th and 20th of October, were marked in word and spirit by recognition not only of the brilliant record of the past but of a great responsibility toward the future. "Our legacy is not narrow and confining," said Mr. Wright. "The founders of this College faced their own times with courage, and they had confidence that later generations would advance their work. We shall be faithful to that trust only if we carry on our heritage in their spirit." At the end of the year this confidence was notably demonstrated in the successful completion of the Seven Million Dollar Fund representing four years of devoted effort on the part of alumnae, students, and friends of the College.

Among the achievements of President Wright's administration were the introduction of interdepartmental courses and the expansion of the honors program. In spite of increasing financial burdens the economic situation of the College was improved, faculty salaries were increased, and the College received a large gift to be used for a new faculty office and class room building to be named in the President's honor. After ten years in office, Mr. Wright resigned in order to resume teaching and research in the field of constitutional law.

VI

The sixth administration of the College was assumed in the fall of 1959 by Professor Thomas Corwin Mendenhall, who came to Smith College from the Department of History at Yale University where his most recent administrative posts had been Master of Berkeley College and Director of the Master of Arts in Teaching Program.

In President Mendenhall's administration, the curriculum has once again been re-examined and revised to adjust it to the changing needs of an increasingly well-prepared student body. Emphasis has been placed on the interests and capacities of the individual student. Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts have broadened their previously established Four-College Cooperation to make available to their students and faculties a variety of jointly sponsored services and facilities (see p. 49). The William Allan Neilson Library has been expanded and renovated; the newly constructed Clark Science Center now provides the College with modern facilities for teaching and research in the sciences, and a Center for the Performing Arts is in construction.

HISTORY OF SMITH COLLEGE

The growth of Smith College is evident enough in the contrast between the small beginnings and the present achievement: between the original corner lot of thirteen acres and a campus of 292 acres, including the astronomy observatory site in Whately; between Sophia Smith's legacy of \$400,000 and total assets of \$91,581,000; between the first class of fourteen and today's enrollment of 2,580; between the eleven graduates of 1879 and an alumnae roster of 33,407. Expansion has meant no change in the ideals set for the College by the founders and carried on by all the great company who have loved it and worked for it. By putting quality first, by coveting the best, by cherishing the values for which the College has always stood, those who serve it now are united in devotion and in commitment with all who have served it in the past. It is this corporate loyalty which has always been, and will continue to be, the abiding strength of Smith College.

THE WILLIAM ALLAN NEILSON CHAIR OF RESEARCH

The William Allan Neilson Professorship, commemorating his profound concern for scholarship and research, has been held by the following distinguished scholars: KURT KOFFKA, PH.D. *Psychology*. 1927-32.

G. ANTONIO BORGES, PH.D. *Comparative Literature*. 1932-35.

SIR HERBERT J. C. GRIERSON, M.A., LL.D., LITT.D. *English*. Second semester, 1937-38.

ALFRED EINSTEIN, DR. PHIL. *Music*. First semester, 1939-40; 1949-50.

GEORGE EDWARD MOORE, D.LITT., LL.D. *Philosophy*. First semester, 1940-41.

KARL KELCHNER DARROW, PH.D. *Physics*. Second semester, 1940-41.

CARL LOTUS BECKER, PH.D., LITT.D. *History*. Second semester, 1941-42.

ALBERT F. BLAKESLEE, PH.D., SC.D. (HON.) *Botany*. 1942-43.

EDGAR WIND, PH.D. *Art*. 1944-48.

DAVID NICHOLS SMITH, M.A., D.LITT. (HON.), LL.D. *English*. First semester, 1946-47.

DAVID MITRANY, PH.D., D.SC. *International Relations*. Second semester, 1950-51.

PIETER GEYL, LITT.D. *History*. Second semester, 1951-52.

WYSTAN HUGH AUDEN, B.A. *English*. Second semester, 1952-53.

ALFRED KAZIN, M.A. *English*. 1954-55.

HARLOW SHAPLEY, PH.D., LL.D., SC.D., LITT.D., DR. (HON.) *Astronomy*. First semester, 1956-57.

PHILIP ELLIS WHEELWRIGHT, PH.D. *Philosophy*. Second semester, 1957-58.

KARL LEHMANN, PH.D. *Art*. Second semester, 1958-59.

ALVIN HARVEY HANSEN, PH.D., LL.D. *Economics*. Second semester, 1959-60.

PHILIPPE EMMANUEL LE CORBEILLER, DR.-ÈS-SC. A.M. (HON.) *Physics*. First semester, 1960-61.

EUDORA WELTY, B.A., LITT.D. *English*. Second semester, 1961-62.

DÉNES BARTHA, PH.D. *Music*. Second semester, 1963-64.

DIETRICH GERHARD, PH.D. *History*. First semester, 1967-68.

LOUIS FREDERICK FIESER, PH.D., SC.D., (HON.), D.PHARM. (HON.) *Chemistry*. Second semester, 1967-68.

Admission of Undergraduates

SELECTION OF CANDIDATES

Smith College seeks a Freshman Class of diverse economic and social backgrounds and one which is widely representative of the more able students from all parts of the country as well as from abroad. The Board of Admission meets in March each year to evaluate the records of applicants, who are notified of its decisions in mid-April. Students are selected who give evidence of possessing the particular qualities of mind and purpose which an education in the liberal arts requires and whose personal qualifications give assurance that they will be responsible and contributing members of the community. Both past achievement and capacity for intellectual development are given weight in this evaluation.

The Board's estimate of the student's ability, motivation, and maturity is not based on a theoretical formula for success, but on a careful and thorough review of all of the candidate's credentials. These include her secondary school record and rank in class, the recommendations from her school, the results of her College Board examinations, and other available information.

Although an interview at the College is not required, it is strongly recommended, since it provides an opportunity for an exchange of information between the candidate and a member of the College's interviewing staff. Students living within a reasonable distance, that is, in the New England states, should make arrangements for an appointment in the office of the Board of Admission before March 15 of their senior year.

The Director of Admission welcomes correspondence with interested candidates, their parents, and school advisers.

SECONDARY SCHOOL PREPARATION

In planning her high school program, a candidate should consider the ways in which her choices will affect her achievement in college. She is encouraged to take the most intellectually stimulating program she can handle successfully. Course requirements for entrance are flexible. The recommended course of study includes at least four academic subjects each year in grades 9 through 12. A candidate is advised to take, in addition to four years of English composition and literature, a minimum of three years in one foreign language or two years each in two languages (no credit is given for only one year of a language), three years of mathematics, one year of laboratory science, and two years of history. Beyond meeting basic minimum requirements, each candidate is expected to pursue in more depth the courses which are of greatest interest to her. The College is aware of the variation among school curricula and is willing to give careful consideration to able students whose programs differ from the recommended course of study.

ADMISSION OF UNDERGRADUATES

The incoming class is selected without emphasis on particular areas of study. However, the Board of Admission takes special interest in candidates who have achieved good overall records and have demonstrated marked ability or talent in one field.

APPLICATION FOR ADMISSION

An applicant for admission registers by submitting an application card which the Board of Admission furnishes upon request and by paying a registration fee of \$15 which is not refunded. Although the date of application is not considered in the selection of candidates, the assignment of rooms in college houses is made in the order of the date of application for admission. Applications must be received not later than January 1 in the year of entrance.

ENTRANCE TESTS

Smith College requires a total of three Achievement Tests, one of which must be in English. The two others must be chosen from two of the following fields: foreign language, mathematics or science, social studies. The tests may be divided between the junior and senior years. Each candidate should be able to offer a total of at least three without any alteration of her normal school program. Although no more than three Achievement Tests in different areas are required, it is advantageous for the applicant, in addition to offering the maximum number possible in January (preferably) or December of the senior year, to take the English Achievement Test and two other tests in May of the junior year for advisory purposes or for possible use in an Early Decision application. Although May is the preferred test date, July tests are acceptable.

The Scholastic Aptitude Test is required in December or January (preferably December) of the senior year. Students are also encouraged to take this examination in March or May (preferably March) of the junior year.

Tests taken in March of the senior year are not acceptable because the results are received too late for an April decision. The Writing Sample is not required of applicants for admission to Smith College.

All candidates should apply to take the College Board examinations by writing to the College Entrance Examination Board, Box 592, Princeton, New Jersey 08540 or the College Entrance Examination Board, Box 1025, Berkeley, California 94701. Applications and fees should reach the appropriate office at least one month before the date on which the tests are to be taken. It is the student's responsibility, in consultation with her school, to decide which tests and test dates are appropriate in light of her program.

EARLY DECISION ON ADMISSION

Candidates who have strong qualifications and have made application *only* to

ADMISSION OF UNDERGRADUATES

Smith College may submit their application for consideration at the fall meetings of the Board of Admission. Students should not apply under this plan unless they have the approval of their school principal or guidance counselor. These applications must be made by October 1 of the senior year, and candidates will be notified of the Board's decision in late November. Decisions are based upon the same general criteria as at the spring meetings, except that the records considered reflect only three years' work. The Scholastic Aptitude Test should be taken in March or May of the junior year and the three Achievement Tests in May (preferably) or July. Early decision candidates who wish to have an interview should do so before November 1, if possible.

Candidates interested in this procedure should write to the Board of Admission for more detailed information.

ADVANCED PLACEMENT PROGRAM

Smith College participates in the Advanced Placement Program which is administered by the College Entrance Examination Board. Students who have completed college-level courses in secondary school are urged to take the College Board Advanced Placement Examinations in May of the senior year in order to become eligible for exemption from certain college requirements or for placement in courses beyond the introductory level. College credit will be given for scores of 4 or 5 on Advanced Placement examinations. (See page 44, and the statements under departmental offerings.)

FOREIGN STUDENTS

The College is interested in admitting qualified foreign students. Applicants are advised to communicate with the Director of Admission well in advance of their proposed entrance. They should include in their initial letter detailed information about their total academic background.

ADMISSION WITH ADVANCED STANDING

Each year the College admits a small number of sophomores and juniors by transfer from other institutions. Candidates for admission with advanced standing are judged on the following criteria: school and college records and recommendations, and results achieved on the Scholastic Aptitude Test. Their college programs should correlate with the general college requirements given on page 44, of this catalogue. With the request for the application form, students should include a detailed statement of their previous educational experience and their reasons for wishing to transfer. To be eligible to apply, a student is expected to be doing work of honor grade at the institution she is attending. Candidates are advised not to apply until after they

ADMISSION OF UNDERGRADUATES

have received their midyear grades. Applications should be on file, however, not later than February 15 of the proposed year of entrance. Decisions are reported before May 1.

Successful candidates are given credit without examination for acceptable work taken at another college. Shortages incurred when previous work is not accepted for the Smith College degree may be removed by carrying a course above the minimum or taking work in an approved summer school. During their first semester in residence advanced standing students may not elect more than four and a half courses without permission of the Administrative Board. Candidates for the degree of Bachelor of Arts are ordinarily required to spend at least two years in residence at Smith College.

READMISSION

A student who has withdrawn from college may apply to the Administrative Board for readmission. Application for readmission in September should be sent to the Registrar before April 1; for readmission in February before December 1.

In general, students who have withdrawn from college at the end of the first semester will be permitted to return only the following February, or at the beginning of the second semester of a subsequent year.

NON-MATRICULATED STUDENTS

Qualified persons beyond the normal undergraduate age may be admitted to courses of study or to supervised research with the approval of the Registrar and the instructor concerned. Auditors must obtain the permission of the Registrar and of the instructor of the course. (See pp. 211-212 for fees.)

The Curriculum

GENERAL COLLEGE REQUIREMENTS

As candidate for the degree of Bachelor of Arts, students will normally follow a four-year program in which they are required to complete thirty-two semester courses of academic work (128 semester hours) as well as prescribed courses in Physical Education. For graduation they must achieve a cumulative average of at least C in their academic work and an average of C or better in the senior year, and must pass two examinations in their major. In computing averages, plus and minus signs are not taken into account. The minimum schedule for a semester consists of four courses.

College credit will be given for scores of 4 or 5 on Advanced Placement examinations. Students receiving such credit may be exempt from some requirements. Students with lower scores may be admitted to advanced courses. Decisions on all matters concerning exemption and placement will be made at the time of registration by appointed representatives of the appropriate departments.

When plans can be approved before the end of the freshman year, it is possible in special cases for students to complete the work in three years by accelerating their program at Smith College and attending summer sessions elsewhere. Only in rare instances is the degree granted after a residence at Smith College of less than two years, one of which must be the senior year.

SPECIAL REQUIREMENTS

- (1) Two semester courses in natural science. Normally students will fulfill this requirement in laboratory science: Astronomy, any of the Biological Sciences, Chemistry, Geology, Physics, Psychology. The required courses may be taken in two departments.

Exemption from this requirement will be granted to students who have achieved a score of 4 or 5 on College Board Advanced Placement examinations or passed an examination in one or two of these fields after the opening of college.

- (2) Two semester courses in a foreign language previously studied in school or four semester courses or an intensive one-year course in a language begun in college.

Provision will be made for exemption from this requirement on the basis of an examination administered after the opening of college.

- (3) Thirteen semester courses outside the area of concentration (two-fifths of the courses required for graduation). Courses taken to fulfill the science and language requirements will be included in this category for students not majoring in the departments in which the requirements were met.

THE CURRICULUM

- (4) A minimum of three semester courses in a department other than the department of the major. At least two of these courses must be of intermediate, advanced, or graduate level.

THE MAJOR

Major programs, which are offered in all departments except Physical Education, are prescribed by the departments. There are, in addition, three interdepartmental majors in American Studies, Ancient Studies, and Biochemistry. In the sophomore year, each student must select a major field; she may make this decision in the fall of that year, if she chooses to do so, and must make it by spring. When a student enters upon her major, she comes under the direction of a major adviser and obtains the approval of that adviser for her program, including a tentative specification of the field or other departmental examinations that she proposes to take in her major, and the time at which she will take them.

A minimum of eight and a maximum of ten semester courses is required in the department of the major in addition to the basic course or courses. Additional courses may be elected in the major department.

The subject matter of each department is subdivided into several fields. The student must pass two examinations in the major department, one in a particular field, the other of a nature defined by the department. In a semester in which juniors or seniors take these examinations, they will be exempt from final examinations in courses related to the departmental or field examinations.

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FOREIGN STUDY IN EUROPE

Students in good standing and with sufficient language training may, if conditions permit, spend the junior year in certain foreign countries in groups directed by members of the Smith College Faculty. The Junior Years in France, Germany, Italy, and Spain are intended primarily for language majors, and the Junior Year in Geneva primarily for students majoring in economics, government, or sociology. History majors with adequate language preparation may apply to any of the Junior Years with the approval of the Department, provided an acceptable program can be worked out for them. Majors in other fields with adequate preparation in language may apply for admission to a given program with the consent of the department of the major. An honors candidate should consult the director of honors in her department before applying to go abroad. Qualified students who spend the junior year abroad may apply for admission to the honors program in the senior year. Properly prepared students from other colleges may be admitted to the groups.

The Junior Year Abroad is planned to afford as rich an opportunity as possible to observe and study the countries visited. During the vacations students are free to travel, although they may stay in residence if they prefer.

Applications, including permission from parents, must be filed by February 1 at the Office of the Registrar. (Applications from students in colleges other than Smith must be accompanied by a fee of ten dollars, which is not refunded.) The selection of members for each group is determined by a special faculty committee. Candidates must meet the health requirements set by the College Physician.

The Directors of the groups are granted by the College full control in matters of behavior and discipline, although the details of group procedure are worked out with student committees. These social regulations are comparable to those which obtain at Smith College, but in each case are adapted to the customs of the country. The supervision of the Director ends with the close of the academic year.

The fee covering tuition, room, and board is \$3275 for the academic year 1968-69; travel and incidental expenses vary according to individual tastes and plans. A deposit of \$50 is payable within 30 days by students who have been provisionally accepted. It is credited on the second semester bill and is not refunded unless written notice of withdrawal from a group is received before May 15. Payment for the first semester should be made by July 10; for the second semester, by December 10. Checks should be sent to the Treasurer of Smith College, Northampton, Massachusetts 01060.

Neither the College nor the Director accepts any responsibility for personal injury to members of a group or for damage to or loss of property. The College offers a health insurance program in which participation is optional, provided the student has protection under another plan and furnishes the Treasurer's Office with the name and address of the insurance carrier and the student's membership number.

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FRANCE. Arrangements are made for students to live in Paris with carefully selected families. Programs consisting of work in French literature, history, art, and other aspects of French culture are planned by the Director. Courses are given by professors from the Sorbonne and other institutions. A preliminary six-week period of intensive training in language is spent in Aix-en-Provence. The language requirement for admission to the group is usually two years of college French beyond three entrance units.

GENEVA. The work in Geneva emphasizes international studies rather than the history and culture of a single country. Accordingly, the group is composed primarily of majors in history, government, economics, and sociology. The program consists of courses in diplomatic and contemporary history, international economics and finance, international law, and similar subjects given at the University of Geneva and the Graduate Institute of International Studies. A preliminary six-week period of intensive training in language is spent in Paris. Since the classes are conducted in French, students are expected to offer two years of college French beyond three entrance units; a minimum of one year of college French is required. It is strongly urged that work in at least two fields of the social sciences be offered for admission.

GERMANY. The work of the Junior Year in Hamburg consists largely of courses taken at the University supplemented, wherever necessary and desirable, by work with German tutors or by specially arranged courses. Courses in German literature, philosophy, art, music, and history are available. A preliminary eight-week period of intensive training in language is spent in Bavaria. A minimum of two years of college German is the normal requirement for admission.

ITALY. The work of the year begins with a month in Siena, where study of the language and of art and literature is undertaken with special instructors. After the first of October, this study is continued in Florence. About the middle of November the group starts work in classes conducted especially for Smith College by professors of the University of Florence and in courses at the University. The subjects offered are Italian art, history, language, and literature. In Florence the students live in private homes chosen by the Director. The minimum requirement for admission is normally two years of college Italian.

SPAIN. After a preliminary month of intensive training in language spent in Barcelona, students go to Madrid for the year's course of study. There they live with carefully selected families. A program consisting of courses in Spanish literature, philosophy, history, and art is planned by the Director and given by professors from the University of Madrid and other institutions. A minimum of two years of college Spanish is the normal requirement for admission.

For summer seminars in the History of Art in Europe, see pp. 58, 59.

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THE JUNIOR YEAR IN THE PHILIPPINES

Students with special interest in East or Southeast Asia or in the general problem of emerging nations may spend their Junior Year in Manila. On leave of absence from the College, they enroll as regular students at the University of the Philippines, live in the University's dormitories, and join in its extracurricular activities. English is the language of instruction and of government. An American visiting professor resident on the campus acts as adviser to the group. The academic year begins in early July and ends at the beginning of April. Students planning to apply for this Junior Year should consult with their major advisers as early as possible in order to plan a major program and obtain approval for the work they expect to complete in the Philippines.

Inasmuch as students are on leave from the College, they are responsible for their own financial arrangements.

INTERCOLLEGIATE CENTER FOR CLASSICAL STUDIES IN ROME

Smith College is one of twenty-five American colleges and universities which participate in this Center. Qualified majors in Classics or Ancient Studies may spend one semester of their junior (or, in some cases, sophomore) year at the Center, and obtain full credit toward their degree for work satisfactorily completed. The curriculum includes the study of Latin and Greek literature, Greek and Roman history, ancient art and archaeology, and field trips through Italy and Greece. The faculty of the Center is composed of members of the faculties of the participating institutions. Instruction is in English.

Admission to the program is limited to students who have a cumulative average of B and who have completed the equivalent of at least four semesters of college-level Latin and one of Greek. The fee of approximately \$1700 (of which \$1645 is covered by the normal cost of one semester at Smith) includes travel to Rome, tuition, room and board at the Center, the major share of costs for trips outside Rome, and ordinary medical services. The expense of additional travel and the return to the United States is estimated at \$750. Scholarship assistance from the Center is available.

Interested students should consult with the Department of Classics as early as possible.

EXCHANGE PROGRAM WITH TORONTO

In 1945 Smith College and the University of Toronto initiated an exchange of students in the junior class. During the year, the Smith College juniors live in the colleges of the University and carry on programs approved by their major advisers.

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Candidates from Smith College must have demonstrated their ability to do work of Dean's List rating and have the approval of the chairman of their major department to be eligible for this program. Four exchanges may be arranged in any one year.

COOPERATIVE PROGRAM FOR CRITICAL LANGUAGES

Qualified students may be granted permission to study for a year at Princeton University in the Cooperative Undergraduate Program for Critical Languages. This program offers instruction in the Arabic, Chinese, Japanese, Persian, Russian, and Turkish languages and related regional studies in the social sciences and humanities. A strong academic record, at least one year of a critical language or an equivalent intensive summer course, and approval of the major department are required for admission. Information concerning application procedure is available at the Office of the Registrar.

FIVE-COLLEGE COOPERATION

Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts have for some time combined their academic activities in certain selected areas for the purpose of extending and enriching their collective educational resources, and have worked out procedures for the proper utilization of these resources by each member of the group. As a result, a student in any one of the four institutions may take a course for credit in any of the other three if he or she has the necessary qualifications for the work of the course and if the request is approved by the student's own Dean and advisers. Catalogues of the courses offered in the other institutions are at the loan desk in the main library and in the offices of all chairmen of departments. Application blanks are available in the Office of the Dean and that office will help with the arrangements for transportation. Requests are usually for advanced courses in the student's major subject and are normally granted only to students in good standing.

The oldest and probably the most important of the cooperative ventures is the Hampshire Inter-Library Center (HILC), a separate legal entity controlled by a Board of Directors made up of the four Presidents, the four Librarians, and representatives from each of the Faculties. HILC is a depository for research materials and learned periodicals of a kind and in a quantity well beyond the reach of any one of the four libraries operating independently; it is now located in the new wing of the Goodell Library on the campus of the University of Massachusetts. The FM Radio Station (Western Massachusetts Broadcasting Council, Inc., WFCR 88.5) is likewise a legal entity, controlled by a Board of Directors made up of representatives of all four institutions.

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A cooperative Ph.D. program has been established. The degree is awarded by the University of Massachusetts but the work leading to the degree may be taken in the various institutions. Students interested in this program should write to the Dean of the Graduate School, University of Massachusetts, Amherst, Massachusetts 01002.

Among other cooperative activities, designed to give added strength to each individual institution, are the following: a joint Astronomy Department; courses in Asian-African Studies inaugurated by the Ford Foundation; a Film Center; a common Calendar of lectures and concerts on all four campuses; and an Office of the Coordinator with the responsibility of fostering cooperative activities. Newly formed Hampshire College, to open in 1970, has recently been added to this group of co-operating institutions.

THE DEGREE WITH HONORS

PURPOSE: The Honors Program is strongly recommended for all juniors and seniors who have achieved or approximated a Dean's List average. Sophomores with exceptional preparation are also encouraged to apply. This program allows for flexibility in the planning and execution of the work of the major and at the same time gives recognition to students who do work of good quality in the preparation of a long paper, as well as in their courses and units or seminars.

AWARD: The degree with honors is voted by the faculty on the recommendation of the Honors Committee, to whom Departments recommend honors in three grades: *summa cum laude*, *magna cum laude*, *cum laude*. Awards are based on consideration of (a) an independent piece of work which usually involves writing a long paper, (b) three final examinations, (c) an estimate of all the work completed in the junior and senior years in addition to any work of intermediate or higher level taken in the department of the major during the sophomore year.

A student who fails to be awarded honors will be granted a degree without honors if her work is of sufficient merit.

ADMISSION: Juniors having a cumulative average of B for the three semesters preceding their application for admission to the honors program are automatically eligible. Other students may be admitted on the recommendation of the department of the major and with the approval of the Committee on Honors.

Subject to special requirements of individual departments, students may enroll at the beginning of the second semester of the sophomore year, or of either semester of the junior year, or at the beginning of the senior year. They may withdraw only on the recommendation of the department of the major and with the approval of the Committee.

UNITS: Honors units will normally be limited to ten students; exceptions up to the number of twelve may be permitted on the recommendation of the director of honors

THE CURRICULUM

and with the approval of the instructor. Priority among honors students for admission to units will be determined by need and qualification.

PRIVILEGES: An honors candidate will have the greatest possible elasticity in the arrangement of her program and will be exempt from all course examinations at the end of the senior year. Honors students are given preference over other undergraduates for admission to units, and may be given such preference for admission to seminars.

For further information on the program and requirements of individual departments, see the departmental listings.

THE DEGREE WITH DISTINCTION

The Degree with Distinction is awarded to students who maintain a minimum average of 3.4 for the senior year and who have achieved a cumulative average of 3.5 or better in the sophomore, junior, and senior years.

ACADEMIC RECORD

Grades signify the following: A, excellent; B, good; C, fair; D, poor; E, failure.

The Dean's List records the names of students who have achieved an average of B (3.0) or better in the work of the preceding year. Students who have an average of 3.6 or better for the previous year are named First Group Scholars. The average is computed by counting each semester hour of A as 4 points, B as 3, C as 2, D as 1, E as 0. Plus and minus signs are not counted.

For graduation, a student is required to have a cumulative average of at least C (2.0) in her academic work, an average of C or better in the senior year and in the departmental examinations.

A student may not enter the senior year with a shortage of hours.

A shortage of hours incurred through failure in a course must be made up before graduation by an equivalent amount of work at the same or higher level carried above the minimum or completed in an approved summer school.

If a student is absent for more than six weeks in one semester, she may not receive credit for the work of that semester.

A student whose college work or conduct is deemed unsatisfactory is subject to separation from the College.

PHI BETA KAPPA

The Zeta of Massachusetts Chapter of the Phi Beta Kappa Society was established at Smith College during the year 1904-05, and the first undergraduates were elected

THE CURRICULUM

to membership in April. In 1920 provision was made for the election of a small number of juniors. Rules of eligibility are established by the Chapter in accordance with the regulations of the national Society.

SOCIETY OF THE SIGMA XI

In 1935 Smith College became the first woman's college to be granted a charter for the establishment of a chapter of the Society. Each year the Chapter elects to membership promising graduate students and seniors who excel in science.

RULES GOVERNING THE ELECTION OF COURSES

Each student is expected to make herself familiar with all regulations governing the curriculum and is responsible for planning her four years of study in accordance with the requirements.

Certain conditions require the presentation of permission slips or of petitions to the Administrative Board.

Petitions to the Administrative Board, which must have the recommendation of the chairman of the department and of the instructor concerned, are required of:

1. All students to enter a course for which they have not had the stated prerequisite.
2. All students to enter the second semester of a year course.
3. All students requesting credit for the first semester of a year course which they propose to drop.

Petitions to carry less than four or more than four and a half courses in a semester must have the recommendation of the student's adviser and the College Physician. A shortage of courses permitted by the Board may be made up by a corresponding excess distributed over succeeding semesters.

Permission of the instructor is required of all students for admission to a seminar. Only one seminar a semester is permitted to students not enrolled in the honors program, and they must petition the Honors Committee for admission to honors units. A seminar is limited to twelve students.

Special Studies are under the control of a given department and the instructor concerned. Normally they are open by permission of the department to qualified junior and senior majors and to qualified juniors and seniors from other departments.

Qualified undergraduates may take one or more graduate courses with the permission of their major advisers and the instructor of the course.

Changes in an academic program may be made only with the approval of the student's adviser either during the scheduled periods for advising or during the first week of classes of each semester.

1. Freshmen and sophomores should file requests for changes in the Office of the Class Deans; juniors and seniors in the Office of the Registrar.
2. Permission to drop courses carried above the minimum during the first semester will not be granted after November first or, in the second semester, after April first.

A student is permitted to attend a class either as an occasional or as a regular auditor with the permission of the instructor in charge of the course.

Smith College

COURSES OF STUDY

1967-1968

Key to Symbols and Abbreviations

Courses are classified in four grades indicated by the first digit in the course number: 100, Introductory; 200, Intermediate; 300, Advanced; 400, Graduate, open to qualified undergraduates.

An "a" after the number of a course indicates that it is given in the first semester; a "b," that it is given in the second semester. A "c" indicates a summer seminar given abroad. Where no letter follows the number of the course, the course runs through the year.

Unless otherwise indicated, all year courses carry eight hours credit; all semester courses, four hours.

The numerals after the letters indicating days of the week show the scheduled hours of classes and hours to be used at the option of the instructor. Students may not elect more than one course in a time block (see chart, p. 254), except in rare cases which involve no conflict. Assignments to sections and laboratory periods are made by the Registrar. Where scheduled hours are not given, the times of meeting are arranged by the instructor.

[] Courses in brackets will be omitted during the current year.

Dem. indicates demonstration; lab., laboratory; lec., lecture; sect., section; dis., discussion.

Explanation of marks before instructors' names: on leave, †for the year; *for the first semester; **for the second semester; §Director of a Junior Year Abroad; ¹appointed for the first semester; ²appointed for the second semester.

INTERDEPARTMENTAL COURSES*

GENERAL LITERATURE 291. *A Study of Selected Literary Masterpieces from Homer to Tolstoy.* Lec. T 2; sect. M T W 10, 2. Mr Connelly (*Director*), Miss Muchnic, Miss Lincoln, Mr Dimock, Mr Hindmarsh, Mr Banerjee.

HISTORY AND SOCIAL SCIENCE 293. *American Ideas and Institutions.* A study of American life and thought through the intensive analysis of four representative generations from the eighteenth to the twentieth century. The adaptation of American values to changing economic, political, and social conditions. Open to freshmen with the permission of the instructor. Th 10-10:50, F 10-11:50. Mr Fink, first semester; Mr Ruiz, second semester.

[HUMANITIES, HISTORY, AND SOCIAL SCIENCE 493b. *Soviet Russia.* A study of political, economic, social, and cultural life in the Soviet Union. Prerequisites: History 247b or Economics 209a or Government 220a and permission of the instructor.]

PHYSICAL SCIENCE 193. *The World of Atoms.* A course in principles designed (1) to convey contemporary ideas about nuclear, atomic, and molecular structure, and (2) to develop an understanding of the methods of physical science. Chemical, astronomical, and physical ideas are discussed in relation to each other and developed in a logical manner. The historical growth of scientific concepts is traced from the Greeks to the present. This course will fulfill the science requirement. (This course is designed primarily for students who, at the time of entering, do not intend to major in science.) Lec. M T 10-10:50, W 10-11:50; dis. W Th 2. Mr Josephs (*Director*), Mr Sherk.

COURSES OFFERED UNDER INTERCOLLEGIATE AUSPICES

[ARABIC 201. *Intermediate Arabic.* Reading and translations. Prerequisite: 101 or permission of the instructor. Hours to be arranged.]

[ARABIC 301. *Advanced Arabic.* Prerequisite: 201, or permission of the instructor. Hours to be arranged.]

CHINESE 111. *Modern Chinese (elementary).* An introduction to Chinese sounds, to basic language patterns of spoken Chinese, and to the recognition of Chinese characters. M F 3-4:50 and two laboratory hours to be arranged. Mr Kung.

CHINESE 212. *Modern Chinese (intermediate).* Conversational Chinese and reading of modern Chinese writings, additional sentence patterns and characters and their combinations. Prerequisite: 111. T 2-3:50, Th 2-2:50 and two laboratory hours. Mr Kung.

*For Interdepartmental Majors, see pp. 199ff.

INTERCOLLEGIATE COURSES

CHINESE 322. *Modern Chinese (advanced)*. Advanced study of grammatical structure of Chinese, and readings in modern literary Chinese materials. Prerequisite: 212 or the equivalent. T 10, Th 10-12. Mr Kung.

CHINESE 333. *Modern Chinese Writings*. Selections from fiction and from documentary and newspaper styles. Prerequisite: 322 or permission of the instructor. M 10-12, F 10. Mr Kung.

[CHINESE 444. *Classical Chinese*.]

[HISTORY OF SCIENCE 395a. *The Newtonian Synthesis*. The biological and physical sciences from the Greeks to the nineteenth century, with the focus on the work and influence of Newton, his predecessors, opponents, and followers. The course emphasizes the significance of scientific ideas in intellectual history. M 3-4:50. Mr Fruchtbaum.]

[HISTORY OF SCIENCE 396a. *The Darwinian Revolution*. Themes in the history of nineteenth-century science, with the focus on the work and influence of Darwin, his predecessors, opponents, and followers. The role of biology, physics, and the sciences of man in shaping the modern world view is examined. Amherst College. T 2-4:30. Mr Fruchtbaum.]

[HISTORY OF SCIENCE 397b. *The Non-Scientific Foundations of Science*. The influence of theology and philosophy on the history of science. Topics include the role of teleology and natural theology in the development of astronomy, geology, and biology, and the interrelations of science and religion. M 3-4:50. Mr Fruchtbaum.]

[HISTORY OF SCIENCE 398b. *Science in America*. A history of scientific ideas and institutions in America from the colonial period to the twentieth century. Lectures and discussions will consider the mutual impact of science and American culture. Amherst College. T 2-4:30. Mr Fruchtbaum.]

[HISTORY OF SCIENCE 399a. *The Social Setting of Science*. A history of scientific institutions and the professionalization of science. The state is treated as a promoter of technology, and the scientist as a maker of public policy. Open to sophomores by permission of the instructor. Mount Holyoke College. W 2-4:30. Mr Fruchtbaum.]

ART

PROFESSORS:

HENRY-RUSSELL HITCHCOCK, A.M.
PHYLLIS WILLIAMS LEHMANN, PH.D.
*PRISCILLA PAINE VAN DER POEL, A.M.
GEORGE COHEN
CHARLES WHITMAN MACSHERRY, PH.D.
LEONARD BASKIN, B.A., L.H.D., D.F.A. (HON.)
†MERVIN JULES
CHARLES SCOTT CHETHAM, PH.D., *Director of the Museum*
**JAMES HOLDERBAUM, PH.D.
WILLIAM LLOYD MACDONALD, PH.D.
JAY RICHARD JUDSON, PH.D., *Chairman*
ROBERT MARK HARRIS, PH.D.

ASSOCIATE PROFESSORS:

PETER GARLAND, B.ARCH.
ELLIOT MELVILLE OFFNER, M.F.A.
EDWARD JOSEPH HILL, M.F.A.

ASSISTANT PROFESSORS:

AMY LOU VANDERSALL, PH.D.
BERNARD MICHAEL BOYLE, M.ARCH., M.A.

INSTRUCTORS:

HELEN E. SEARING, A.B.
THEODORE E. STEBBINS, JR., LL.B., A.M.

LECTURERS:

RITA ALBERS JULES
SHEILA McNALLY, PH.D.

Students planning to major or to do honors work in art will find that courses in literature, philosophy, religion, and history taken in the first two years will prove valuable. Botany 110a and 111b and 210 are recommended to students who have a special interest in landscape architecture.

A. Historical Courses

Each of the historical courses may include one or more trips to Boston, New York, or the vicinity for the study of original works of art.

A reading knowledge of foreign languages, especially German, Italian, and French, is urgently recommended.

- 100 *Introduction to the History of Art.* Important works of art, from ancient Egypt to the present (including painting, sculpture, and architecture), are studied historically and analytically. Illustrated lectures are given by members of the department. W Th F 3; one-hour discussion periods distributed throughout the week. Members of the Department. Mr Boyle (*Director*).

ART

- [101b *Introduction to the History of Art.* Restricted to 15 students selected from those taking 100.]
- 102a *Introduction to Historical Architecture.* Major representative works of Western architecture will be studied as stylistic and historic documents. W Th F 12. Mr Boyle.
- [204b *History of Graphic Arts.* The history of print-making in the Western world, with emphasis on the production of Dürer, Rembrandt, Goya, and Munch. Two lectures (and one discussion meeting in the Museum, where original prints will be examined). M T W 9. Mr Chetham.]
- [206b *History of Sculpture: 1550 to the Present.* Masterpieces of major representative sculptors and sculptural movements, as reflections of European and American civilization during the past four centuries. Recommended background: Art 100, or any course in the history of art after the Renaissance. Offered in alternate years. To be given in 1968-69. Th 10, F 10-11:50, S 10 at the option of the instructor. Mr Holderbaum.]
- 207a *Oriental Art.* The art of China and Japan from the beginnings through the earlier developments in figure and landscape painting. Buddhist art and architecture in India, Central Asia, China, and Japan. M T 8:40, W 9 at the option of the instructor. Mr MacSherry.
- 208b *Oriental Art.* The great landscape tradition in China and its continuation and modification in Japan; Chinese porcelains; the development of indigenous Japanese styles, including that of the color prints. M T 8:40, W 9 at the option of the instructor. Mr MacSherry.
- 211a *The Art of Greece.* Architecture, sculpture, painting, and the minor arts from the prehistoric background to the late Hellenistic age. M T W 10. Mrs Lehmann.
- 212b *The Art of Rome.* Architecture, sculpture, painting, and the minor arts from the late Hellenistic and Etruscan backgrounds to the late antique antecedents of Christian art. Recommended background: 211a or 100. M T W 10. Mr MacDonald.
- 213c *The Classical Style: Origins and Significance.* Summer, 1967, Athens, Greece. Miss McNally.
- 220a *Early Christian and Byzantine Architecture.* Design and meaning in the architecture of the Christian Roman Empire and the Byzantine era. Emphasis will be on monuments of the fourth, sixth, ninth to eleventh centuries, and the city of Constantinople. Prerequisite: 100, 102a, or 221a, or History 220b. M T W 9. Mr MacDonald.

- 221a *Early Medieval Art.* Art from the time of Constantine to Charlemagne with emphasis on painting, mosaic, and sculpture. Prerequisite: 100, 220a, or the equivalent. M 3-4:50, T W 3. Mr Harris.
- 222b *Romanesque and Byzantine Art.* Architecture, sculpture, and painting from the ninth through the twelfth centuries with emphasis on Northern Europe and the Byzantine Empire. Prerequisite: 100, 220a, 221a, or the equivalent. M 3-4:50, T W 3. Mr Harris.
- 224b *Gothic Art.* Architecture, sculpture, and painting from 1200 to 1460, with emphasis on France, Germany, England, and Burgundy. Prerequisite: 100. Th 10, F 10-11:50, S 10 at the option of the instructor. Miss Vandersall.
- 232b *Northern Art.* Dutch, Flemish, French, and German art from the fourteenth through the sixteenth century. From Van Eyck to Bruegel. Given in alternate years. Recommended background: 100. Th F 8:40, S 9 at the option of the instructor. Mr Judson.
- 233a *Italian Fifteenth-Century Art.* The painting, sculpture, and architecture of the early Renaissance. Recommended background: 100. Alternates with 235a. Not to be offered in 1968-69. Th 10-10:50, F 10-11:50, S 10 at the option of the instructor. Mr Holderbaum.
- [235a *Italian Sixteenth-Century Art.* Painting, sculpture, and architecture from the High Renaissance to the Counter-Reformation. Recommended background: 100. Alternates with 233a (formerly 234b). To be offered in 1968-69. Th 10-10:50, F 10-11:50, S 10 at the option of the instructor. Mr Holderbaum.]
- 241a *The Art of the Seventeenth Century in Italy, France, and Spain.* Recommended background: 100. Th F 8:40, S 9 at the option of the instructor. Mr Judson.
- [242b *Dutch and Flemish Art of the Seventeenth Century.* From Bruegel to Rembrandt. With emphasis on painting and drawing. Recommended background: 100. Th F 8:40, S 9 at the option of the instructor. Mr Judson.]
- 243c *Dutch Art: Sixteenth and Seventeenth Centuries.* Summer, 1967, Amsterdam, The Netherlands. Mr Judson.
- 244b *Seventeenth-Century Architecture.* The Baroque in Italy from its initiation around 1600; cross-currents of style in France and England. Recommended background: 100. M T W 3. Mr Hitchcock.
- [246b *Art of the Eighteenth Century in Europe.* Painting, architecture, and sculpture on the Continent, with emphasis on developments in France and Italy. Recommended background: 100. Th F 8:40, S 9 at the option of the instructor.]

ART

- [248b *Art in Britain: 1720-1870*. Painting, architecture, landscape architecture, and sculpture from the emergence of a British School in the early eighteenth century through the mid-Victorian period. Recommended background: 100. Th F 8:40, S 9 at the option of the instructor.]
- [251a *Nineteenth-Century Art* and its backgrounds from Goya and Jacques Louis David through the Impressionist and Post-Impressionist painters. Recommended background: 100. M T 11-12:45. To be offered in 1968-69. Mrs Van der Poel.]
- 253a *The Arts in America*. The art of Colonial America and the Early Republic, 1620-1800, including architecture, sculpture, painting, and the decorative arts. Th 11-1, F 12-1. Mr Stebbins.
- 254b *The Arts in America*. American art of the nineteenth and twentieth centuries, with emphasis on the major figures and main currents in the various arts. Th 11-1, F 12-1. Mr Stebbins.
- [255a *Architecture of the Nineteenth Century*. The background of modern architecture. Prerequisite: 100 or 280a, b. W Th F 2.]
- 256b *Contemporary Art*. Twentieth-century movements in various European countries and Mexico. Recommended background: 100 or 251a. M T 11-12:45. Mrs Van der Poel.
- 257a, 257b *Modern Architecture and Its Immediate Background*. Architecture of the last hundred years with particular emphasis on the work of H. H. Richardson, Louis Sullivan, Frank Lloyd Wright, and the European architects of the International Style. Recommended background: 100 or 280a, b. Prerequisite for 257b: 255a or 257a. M T W 2. Mr Hitchcock.
- [258b *Architecture of the Twentieth Century*. Modern architecture since 1900, with emphasis on the work of Frank Lloyd Wright, LeCorbusier, and Mies van der Rohe. Recommended background: 100, 255a, or 280a, b. M T W 2.]
- 301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had four semester courses of art above the introductory level.

SEMINARS

- 304b *Introduction to Museum Problems*. Open to senior Art majors only. W 10-12:30. Mr Chetham.
- 310b *Studies in Ancient Painting*. Alternates with 312b. M 3. Mrs Lehmann.
- [312b *Studies in Greek Sculpture*. Alternates with 310b. M 3. Mrs Lehmann.]

- 314b *Studies in Roman Art.* T 4. Mr MacDonald.
- 315a *Studies in Late Antique Art.* W 7:30. Mr MacDonald.
- 321a *Studies in Medieval Art.* Th 3. Mr Harris.
- 331a *Studies in Northern Painting.* Th 7:30. Mr Judson.
- 333a *Studies in Renaissance Art.* Th 3. Mr Holderbaum.
- 342b *Problems in Seventeenth-Century Art.* Th 7:30. Mr Judson.
- [346a *Studies in Eighteenth-Century Art.* M 7:30.]
- [351a *Studies in Nineteenth-Century European Art.* To be offered in 1968-69. T 4. Mrs Van der Poel.]
- [353a *Studies in English and American Art.* M 7:30.]
- 356b *Studies in Twentieth-Century Art.* T 4. Mrs Van der Poel.
- [358b *Drawing in the Nineteenth Century.* Mr Chetham.]
- 359a *Studies in Modern Architecture.* T 4-6. Mr Hitchcock.

GRADUATE

For information about graduate work in art, application should be made to the Chairman of the Department.

Adviser: Mr Hitchcock.

400 *Research and Thesis.*

401, 401a, 401b *Advanced Studies.* May be taken for double credit.

433a *Art of the Italian Renaissance.* Mr Holderbaum.

B. Studio Courses

A fee is charged for materials in 160, 260b, 261a, 262b, 265a, 266b, 271a, 272b, 273a, 274b, 280a and b, 305a, 306b, 381, 383a and 384b. The Department reserves the right to retain examples of work done in studio courses.

- 160 *Introduction to the Theory and Practice of Art.* Appreciation and understanding of the basic principles underlying the structure of the arts through studio practice in handling the elements of color, volume, movement, space, line, and texture. Lectures, demonstrations, films, discussion, and workshop experiments. M 9; eight studio hours of which four must be M T 10-11:50, 2-3:50, or Th F 10-11:50. Mr Hill (*Director*).

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- 260b *Materials and Techniques*. Introduction to the materials and techniques of drawing, graphics, painting, sculpture. Not open to students taking other studio courses. Lectures, demonstrations, discussion, and workshop experiments. Nine studio hours of which six must be M T W 10-11:50. By permission of the instructor. Mr Hill.
- [261a *Design Workshop*. Two- and three-dimensional experimental work in form, color, and structure. Prerequisite: 160 or permission of the instructor. Nine studio hours of which five must be Th 8:40-10:50, F 8:40-11:50. Mr Offner.]
- 262b *Design Workshop*. Repetition of 261a. Prerequisite: 160 or permission of the instructor. Nine studio hours of which five must be Th F 2-4:50. Mr Offner.
- 263a *Drawing*. A study of the basic elements of drawing. Prerequisite: 160 and permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Hill.
- [264b *Figure Drawing*. The study of the human figure. Prerequisite: 263a or permission of the instructor. Nine studio hours of which six must be W 3-3:50, Th 3-5:50, F 3-4:50. Mr Hill.]
- 265a *Painting*. Exploration of color and pictorial organization, utilizing the techniques of painting in water-color and casein. Prerequisite: 160 and permission of the instructor. Nine studio hours of which six must be M T 2-4:50. Mr Cohen.
- [266b *Painting*. Introduction to painting in oil; with further studies in pictorial composition and color. Prerequisite: 160, 265a, or permission of the instructor. Nine studio hours of which six must be M T 2-4:50. Mr Cohen.]
- 271a *Graphic Arts*. Methods of print-making. Prerequisite: 160. Nine hours of which six must be M T 10-12:50. Mr Baskin.
- 272b *Graphic Arts*. Continuation of 271a. Prerequisite: 271a, or permission of the instructor. Nine hours of which six must be M T 10-12:50. Mr Baskin.
- 273a *Sculpture*. Methods of direct carving and plaster techniques. Prerequisite: 160, or permission of the instructor. Recommended background: 263a. Nine studio hours of which six must be Th F 2-4:50. Mr Offner.
- [274b *Sculpture*. Work in direct carving. Prerequisite: 273a, or permission of the instructor. Nine studio hours of which six must be Th F 2-4:50. Mr Offner.]
- 280a, b *Introduction to Architecture, City Planning, and Landscape*. Preliminary instruction in drafting, perspective, and lettering, followed by planning and design problems. Prerequisite for 280b: 280a. Th F 2-4:50. Mr Garland.

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- 301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had four semester courses of art above the introductory level.
- 305a *The Teaching of Art.* Theory and practice of art in the elementary and secondary school. For juniors and seniors by permission of the instructor. Recommended background: 160 and Education 235a, or b. (Students who wish this to be credited as a course in Education should see the listings of the Department of Education and Child Study.) M 7:30-10. Mrs Jules.
- 306b *The Teaching of Art.* Continuation of 305a. By permission of the instructor. (Students who wish this to be credited as a course in Education should see the listings of the Department of Education and Child Study.) M 7:30-10. Mrs Jules.
- [361a *Problems in Pictorial Organization.* Prerequisite: 261a or 266b, or permission of the instructor. Nine studio hours of which six must be M T W 10-11:50. Mr Jules.]
- 362b *Problems in Pictorial Organization.* Individual expression in painting, using various media. Prerequisite: 261a or 266b and permission of the instructor. M T 2-4:50. Mr Cohen.
- 381 *Architecture.* Further problems in planning and design together with instruction in elementary construction. Prerequisites: 280a, b. Th F 11-12:50. Mr Garland.
- 383a *Problems in Landscape Design, I.* Prerequisites: 280a, b. Th F 11-12:50. Mr Garland.
- 384b *Problems in Landscape Design, II.* Readings and discussion in landscape architecture, garden design, urban design, city planning, and architecture. Hours to be arranged. Mr Garland.

GRADUATE

- 460a, 460b *Studies in Design, Drawing, Painting, Graphic Arts, or Sculpture.* Members of the Department.
- 481 *Architecture.*
- 483 *Landscape Architecture.*

ART

THE MAJOR

Advisers: Mr Boyle, Mr Cohen, Mr Garland, Mr Holderbaum, Mr MacDonald, Mr. Offner, Mrs Van der Poel, Miss Vandersall.

Based on 100 (Section A), or 160 (Section B). Exemption from 100 will be granted to students who pass an examination administered by the Department at the beginning of the year. Exemption from 160 may be granted students on presentation of an acceptable portfolio to the instructor. Such students will then take one semester in design and one semester in drawing.

Plan A

Basis: 100

Requirements: 100 and ten semester courses, of which at least one must be taken in Section B. The program must also include four semester courses from four of the five areas Alpha through Epsilon.

Plan B

Basis: 160

Requirements: 160 and ten semester courses, among which 100 is obligatory. The program must also include one semester course from two of the four areas Alpha through Delta.

Alpha (Ancient): 211a; 212b; 213c; 310b; 312b; 314b; 315a.

Beta (Medieval): 220a; 221a; 222b; 223a; 224b; 321a; 322b.

Gamma (Renaissance): 231a; 232b; 233a; 234b; 235a; 239c; 331a; 333a.

Delta (Baroque and Rococo): 206b; 241a; 242b; 243c; 244b; 246b; 248b; 249c; 253a; 341a; 342b; 346a.

Epsilon (the last 200 years): 251a; 253a; 254b; 255a; 256b; 257a and b; 258b; 351a; 353a; 356b; 358b; 359a.

Majors are strongly urged to take at least one seminar.

Two semester courses in closely related subjects offered by other departments may, with the approval of the adviser, be counted as credit toward the major.

Departmental examinations: Students will take one field examination, and also either a general examination or a second field examination.

The field examination:

Any one of the following categories in Section A will constitute a field: Alpha (Ancient), Beta (Medieval), Gamma (Renaissance), Delta (Baroque and Rococo),

ART

and Epsilon (the last 200 years). It is recommended that two courses in a field be regarded as minimum preparation for a field examination. For Section B field examinations, the student will submit a portfolio of work based on three or more related courses which the adviser approves as constituting a field. A field examination may be taken at the end of a student's junior or senior year.

The general examination:

This examination will be designed to reflect the diversity of preparation within the major. It will be taken at the end of the senior year.

HONORS

Director: Mr Harris.

Basis: 100.

Requirements: Eight semester courses, including the Honors Unit, taken during the second semester of the senior year. In addition, the candidate will write a long paper during the first semester of that year equivalent to one semester course.

Three examinations: a general examination on the history of art; a field examination; and one testing the candidate's ability to analyze and to interpret original works of art.

UNIT

Second semester

Problems in the History of Art. Required of senior honors students. Th 3. Mr Harris and members of the Department.

ASTRONOMY

ASSISTANT PROFESSOR:	FRANCIS MICHAEL STIENON, PH.D.
LECTURERS:	STEPHEN MILLER ADLER, PH.D. (Assistant Professor, Mount Holyoke College)
	THOMAS T. ARNY, PH.D. (Assistant Professor, University of Massachusetts)
	BRUCE C. COGAN, PH.D. (Assistant Professor, Amherst College)
	EDWARD R. HARRISON, F.INST.P. (Professor, University of Massachusetts)
	WILLIAM MICHAEL IRVINE, PH.D. (Associate Professor, University of Massachusetts), <i>Chairman</i>
	WILLIAM T. PLUMMER, PH.D. (Assistant Professor, University of Massachusetts)
	JOHN D. STRONG, PH.D. (Professor, University of Massachusetts)

The astronomy department is a joint four-college department. Courses designated FC (four-college) are taught jointly with Amherst College, Mount Holyoke College, and the University of Massachusetts. The astronomical resources of all four institutions are available for advanced student use. In special cases, student research and thesis materials may be obtained from major observatories.

Astronomy 101, or 122a or b may be elected to fulfill the science requirement.

A student interested in an astronomy major should consult with the Department as early in her college career as possible. The prospective major is encouraged to begin her study of physics and mathematics as soon as possible.

- 101 *Introduction to Astronomy.* The motions and physical nature of the moon, the planets, comets, and meteors. Introduction to elementary astronomical spectroscopy and the laws of radiation. Hypotheses of the origin of the solar system, the structure of the sun. Study of stars, stellar systems, and recent theories of stellar and galactic evolution. Opportunity for laboratory work, astronomical observation, and the use of the Amherst College planetarium. Prerequisite: three entrance units of mathematics. Lectures and discussion. Th F S 9; laboratory-observation periods by arrangement. Mr Stienon.
- 122a (FC22) *General Astronomy.* A quantitative introductory course describing our present knowledge of the universe and the means whereby it has been obtained. The properties of the solar system, individual and multiple stars, interstellar matter, our galactic system, external galaxies, and the possibility of extraterrestrial life are considered. Prerequisites: Mathematics 104a or b; Physics 115; or permission of the instructor. Th F 2-3:50. Mr Stienon.

ASTRONOMY

- 122b (FC22) *General Astronomy*. Repetition of 122a. University of Massachusetts. Hours to be arranged. Mr Irvine.
- 237a (FC37a) *Astronomical Observation, Reduction, and Analysis (I)*. Fundamental astronomical catalogues and their uses; theory of the transit telescope; visual observation with the equatorial telescope and the transit; photography with the equatorial telescope; photographic photometry. Three hours of classroom work per week, of which some will be observing sessions to be arranged. Prerequisite: 101, or 122a or 122b, or permission of the instructor. T 2-5. Mount Holyoke College. Members of the Department.
- 238b (FC38b) *Astronomical Observation, Reduction, and Analysis (II)*. Astronomical spectroscopy including line identification, plate calibration and radial velocity determination; photography of objective grating spectra; photoelectric photometry including determination of atmospheric extinction and extrapolation to stellar color indices and magnitudes outside the atmosphere; photoelectric light curves of variable stars. Three hours of classroom work per week, of which some will be observing sessions to be arranged. Prerequisite: 101, or 122a or 122b, or permission of the instructor. Hours to be arranged. Members of the Department.
- 301a, b Special Studies. By permission of the Department for senior majors who have had three semester courses above the introductory level in astronomy.
- 343a (FC43a) *Astrophysics (I)*. Basic topics in astronomy and astrophysics. General principles and the physical state of stellar interiors. Introduction to stellar structure and simple stellar models. Stellar evolution. Prerequisite: Physics 220b, 234b; or permission of the department. M F 2-4. Amherst College or University of Massachusetts. Members of the Department.
- 344b (FC44b) *Astrophysics (II)*. Interaction of matter and radiation. Radiative transfer. Introduction to the physics of stellar and planetary atmospheres. Interplanetary and interstellar particles. Extraterrestrial radio emission. Prerequisite: Physics 220b, or permission of the department. M F 2-4. University of Massachusetts. Members of the Department.

See also the Intercollegiate Courses in the History of Science, p. 56.

GRADUATE

- [401 *Topics in Astrophysics*. Ionization in a plasma, radiation from stellar atmospheres, theory of planetary nebulae.]

ASTRONOMY

THE MAJOR

Adviser: Mr Stienon.

Based on 101, or 122a or 122b.

Requirements: Ten semester courses, including the following: 237a (FC37a), 238b (FC38b) (or other combinations approved by the Department); Physics 115; Mathematics 202a or 202b and 222a, or the equivalent; and four additional semester courses, two in Astronomy, and two in related sciences or Mathematics.

Examinations in any two of the following fields: astronomy, celestial mechanics, astrophysics, cosmology and evolution, galactic structure, statistical astronomy.

HONORS

Director: Mr Stienon or other member of the joint department.

Prerequisites: 101, or 122a or 122b; Physics 115.

Requirements: Eight semester courses, including the following: 237a (FC37a), 238b (FC38b) (or other combinations approved by the Department); Mathematics 202a or b, 203a or b; and at least two additional semester courses in Physics, and two in Mathematics; and a thesis equivalent to two semester courses on a topic approved by the Department.

Three examinations: Two field examinations selected from those listed under the major and an oral examination on the thesis.

BACTERIOLOGY AND PUBLIC HEALTH

See The Biological Sciences, p. 69.

BOTANY

See The Biological Sciences, p. 71.

THE BIOLOGICAL SCIENCES

PROFESSORS:	LOIS EVELYN TE WINKEL, PH.D. *ESTHER CARPENTER, PH.D., D.SC. (HON.) ELINOR VAN DORN SMITH, PH.D. ELIZABETH DOROTHY ROBINTON, PH.D., <i>Chairman</i> *B. ELIZABETH HORNER, PH.D. GEORGE WARREN DE VILLAFRANCA, PH.D.
ASSISTANT PROFESSORS:	DAVID ANDREW HASKELL, PH.D. CARL JOHN BURK, PH.D. ELIZABETH ANN TYRRELL, PH.D. JOHN DUNNING DAVIS, PH.D. DOROTHY MERRILL, PH.D. ARNOLD E. S. GUSSIN, PH.D. SANAT KUMER MAJUMDER, PH.D. JEANNE ADELE POWELL, PH.D. WILLIAM I. P. CAMPBELL
HORTICULTURIST:	JO-ANN HAMMONS, M.S.
TEACHING FELLOWS:	¹ ELLEN CHIEU-SUEY LIN, B.SC. LACY ALSTON COLSON, B.S. DONNA JEAN MAIN, A.B. CAROL BRAWNER, A.B. MARY K. DOWGERT, B.A. HAROLD ROYALL HINDS, M.A. DARILYN ODESSA WILDS, B.S.
RESEARCH FELLOW:	DAVID W. STANLEY, M.S.
LECTURERS:	MARY HODGE LAPRADE, PH.D. PAUL HOWE SHEPARD, PH.D.

Included within the Department of Biological Sciences are four majors: General Biological Sciences, Botany, Microbiology, and Zoology.

GENERAL BIOLOGICAL SCIENCES

Students planning to major in the Biological Sciences are advised to take at least two of the essential courses in the freshman year. All majors are required to have at least two semesters of introductory Chemistry, or the equivalent.

100a *Principles of the Biological Sciences.* An introduction to the study of organisms centering on the evolution of systems by which the problems of the continuity and elaboration of life in the biosphere are met. The processes of

THE BIOLOGICAL SCIENCES

self-maintenance, reproduction, dispersal and interrelationships are examined as common to all organisms. Three lectures and one three-hour laboratory. Lec. M T W 9; lab. M T Th F 2, Th 10, F 9. Mrs Laprade, Mr Shepard, Mr Gussin, Miss Merrill.

- 100b A repetition of 100a. Three lectures and one three-hour laboratory. Lec. M T W 9; lab. M T 2. Mr Gussin and members of the Department.
- 101a *Cell Biology*. An introduction to the cellular and sub-cellular organization and function in representative examples from plants, animals, and unicellular organisms which illustrate the unity of biological material. Prerequisite: Chemistry 111a and 111b, or 112a or equivalent, and Biological Sciences 100a or Botany 110a, or by permission of the instructor. Three lectures and one three-hour laboratory. Lec. Th F S 8:40; lab. T F 2. Mr de Villafranca, Miss Powell.
- 102a *Principles of Ecology*. A study of the relation of plants and animals to each other, as well as to the physical and chemical factors operating on them in different environments. Attention is given to populations, energy relationships, limiting factors, community organization, and succession. Prerequisite: Biological Sciences 100a or b or its equivalent. Three lectures and three hours of laboratory or field work. Lec. M T W 12; lab. or field work M T 2. Mr Davis and members of the Department.
- 103b *Genetics*. A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite: Biological Sciences 100a or b, or Botany 110a, or permission of the instructor. Two lectures and two hours of laboratory. Lec. Th F 2; lab. Th F 3, and independent work. Miss Powell.
- 200a *Conservation of Natural Resources*. Basic ecological principles and their application to the conservation for human society of soil, water, vegetation, and wildlife. Prerequisite: Botany 110a or permission of the instructor. Two lectures or discussions and one fall field trip. Lec. Th 7:30. Mr Burk.
- 201b *Biogeography*. Study of major patterns of distribution of life and of the environmental and historical factors determining these patterns. Prerequisite: any course in ecology or systematics. Given in alternate years. Two two-hour meetings. Th F 9-10:50. Miss Horner, Mr Burk.

THE MAJOR

Advisers: Mr Burk, Mr Davis, Miss Merrill, Miss Robinton.

Based on: Botany 110a and Zoology 130a.

THE BIOLOGICAL SCIENCES

Requirements: Ten semester courses including the following: Biological Sciences 101a and 103b; Botany 111b; Microbiology 120a; Zoology 131b; and five additional courses elected from the offerings in the Department of Biological Sciences and to include one course in ecology.

Two examinations: a field examination in one of the divisions of the Department and an examination in general Biological Sciences.

BOTANY

Unless otherwise stated, the prerequisite for all courses above the introductory level is 110a, or permission of the instructor.

Sophomores may elect advanced courses with the permission of the instructor.

Any laboratory course offered by the Department may be used to fulfill part of the science requirement.

- 110a *General Botany.* A study of the life processes and structures of seed plants with an introduction to their ecology, genetics, and importance to man. Two lectures and one three-hour laboratory. Lec. Th F 12; lab. M W F 9, T Th 2. Mr Burk and members of the Department.
- 111b *Evolution and the Plant Kingdom.* A study of the mechanisms of evolution, the history of evolutionary thought, and the morphology and phylogeny of selected plant types. Two lectures and one three-hour laboratory. Lec. Th F 12; lab. M W F 9, T Th 2. Mr Burk and members of the Department.
- 200a *Conservation of Natural Resources.* Basic ecological principles and their application to the conservation for human society of soil, water, vegetation, and wildlife. Two hours of lecture and discussion and one fall field trip. Lec. Th 7:30-9:30. Mr Burk.
- 210 *Horticulture.* Theory and practice of plant cultivation and improvement, with a study of the species commonly cultivated and the preparation of gardens. Only one semester may be counted toward fulfillment of the science requirement. Two lectures and two two-hour laboratories. Lec. Th F 10. Mr Campbell.
- 211a *Plant Morphology.* An evolutionary survey of the plant kingdom. Intensive studies in the structure, reproduction, phylogeny, classification, and significance of selected vascular and non-vascular plants. Three hours of lecture, two hours of laboratory. W 7:30, and three hours to be arranged. Mr Haskell.

THE BIOLOGICAL SCIENCES

- 212a *Plant Physiology I*. A study of diffusion, water relations, photosynthesis, respiration, and allied processes. Two lectures and two two-hour laboratories. M T W 11-12:50. Mr Majumder.
- [213b *Systematics*. Classical and modern approaches to the taxonomy of higher plants, with emphasis on evolutionary trends and processes, principles of classification and identification of local flora. Field work. Two lectures and three hours of laboratory. Lec. Th F 2; lab. hours to be arranged. Mr Burk.]
- [310a *Plant Ecology*. A study of plant communities and the relationships between plants and their environment, emphasizing field work and review of current literature. Two lectures and three hours of laboratory. Lec. Th F 2; lab. hours to be arranged. Mr Burk.]
- [311b *Plant Anatomy*. A study of the microscopic structure of the vegetative and reproductive organs of seed plants. Prerequisite: 211a or permission of the instructor. Three hours of lecture, two hours of laboratory. W 7:30, and three hours to be arranged. Mr Haskell.]
- 312b *Plant Physiology II*. A study of growth and development as influenced by internal and external factors. Prerequisite: 212a. Two lectures and two two-hour laboratories. M T W 11-12:50. Mr Majumder.
- 313a A research project correlating material from various fields, leading to a paper. Members of the Department.
- 314, 314a, 314b Special Studies: work in morphology, anatomy, physiology, taxonomy, ecology. By permission of the Department. Members of the Department.

GRADUATE

Adviser: Mr Haskell.

- 410, 410a, 410b Research and Thesis (*may be taken for double credit*).
- 411, 411a, 411b Advanced studies in the fields of morphology, anatomy, physiology, taxonomy, ecology. Members of the Department.
- 412a, 412b Seminar on recent advances and current problems in botany. Selected topics for reading and individual reports. Members of the Department.

THE MAJOR

Director: Mr Burk.

Based on 110a and 111b.

THE BIOLOGICAL SCIENCES

Requirements: Eight semester courses, including the following: 211a, 212a, 213b, 313a, and at least four semester courses in Botany or in Chemistry, Geology, Mathematics, Microbiology, Physics, Zoology. The paper for 313a must be in the field of concentration.

Two examinations: one in one of the three fields; the second in general botany.

Fields: A. Plant Physiology (212a, 312b).

B. Plant Morphology and Plant Anatomy (211a, 311b).

C. Systematics and Plant Ecology (213b, 310a).

HONORS

Director: Mr Burk

Based on 110a and 111b.

Requirements: Eight semester courses, as in the major; a long paper (a semester of independent work); and 314a or 314b.

Three examinations: two written examinations, one in the field of general botany and one in one of the three fields; and an oral examination.

MICROBIOLOGY AND PUBLIC HEALTH

Microbiology 120a or 122b will fulfill one semester of the science requirement. Students planning to major in Microbiology are advised to take 120a and 121b, and Chemistry 111a and 111b, or the equivalent, before the junior year.

120a *Introductory Bacteriology.* Distribution, classification, and general morphology of bacteria, followed by an introduction to bacterial physiology and methods of controlling bacterial growth. Prerequisite: Chemistry 111a or the equivalent. Two lectures and two two-hour laboratories. Lec. M T 10; lab. M 3, W 10. Miss Tyrrell.

121b *General Microbiology.* Isolation, cultivation, and characterization of various metabolic types of microorganisms by means of enrichment techniques and manipulation of environmental conditions. Prerequisites: 120a; Chemistry 111a and b, or the equivalent. Two lectures and two two-hour laboratories. Lec. M T 10; lab. M 3, W 10. Miss Tyrrell.

122b *Microorganisms and Man.* A study of microbial activities in relation to the life of the individual and the community. Primarily for non-science majors. (This course does not count in the major.) Two lectures, and two hours of laboratory and demonstration. Lec. M T 10; lab. W 10. Miss Smith.

A. General Microbiology

[220b] *Principles of Virology.* Introduction to current concepts of virus multiplication and effects on host cells; techniques of virus propagation; and methods

THE BIOLOGICAL SCIENCES

of titration and neutralization. Prerequisites: 120a, 121b, the first semester of 221, Chemistry 222. Two lectures, one three-hour laboratory, and one hour to be arranged. Alternates with 321b. Lec. M T 2; lab. T 3. Miss Tyrrell.]

- 320a *Bacterial Physiology*. A comprehensive study of bacterial cytology, physiology, and genetics: Prerequisites: 120a, 121b, Chemistry 222. Two lectures, one three-hour laboratory, and one hour to be arranged. Lec. M T 2; lab. T 3. Miss Tyrrell.

B. Pathogenic Microbiology

- 221 *Pathogenic Bacteriology and Immunology*. An introduction to immunological theory with applications of bacteriological and serological methods for the identification of pathogenic bacteria. Prerequisites: 120a and 121b. One hour of lecture and five hours of laboratory. Lec. Th 2; lab. Th 3, F 2. Miss Smith.
- 321b *Pathogenic Fungi*. A study of the fungi of medical importance to man through morphological, cultural, and serological methods. Prerequisites: 120a, 121b, and the first semester of 221. Two lectures and two two-hour laboratories. Alternates with 220b. Lec. M T 10; lab. M T 3. Miss Robinton, Miss Tyrrell.

C. Public Health

- 222a *Concepts of Public Health*. The development of the modern public health movement since its inception, with emphasis on the period from the sanitary awakening of the nineteenth century to the present day. Basic concepts and current activities of official and non-official organizations will be evaluated. Th 10, F 10-11:50. Miss Robinton.
- 223b *Environmental Health*. An analysis of the problems of public health created by man in his environment, including a survey of the control measures currently applied to housing, and the contamination of the atmosphere, water, and food supplies. Th 10, F 10-11:50. Miss Robinton.

SEMINARS

- 322a *Backgrounds of Microbiology*. A survey of the discoveries and developments in scientific thinking which culminated in the science of microbiology. Prerequisite: 120a. W 7:30. Miss Robinton.
- 323b *Modern Concepts in Microbiology*. Recent developments in microbiology and immunology. Directed readings and group discussions. W 7:30. Members of the Department.

THE BIOLOGICAL SCIENCES

324b *Health Education*. Problems in the dissemination of accurate public health information to the individual and to the community. Th 7:30. Miss Robinton.

325, 325a, 325b Special Studies. By permission of the Department for senior majors who have completed 120a, 121b and 221.

Graduate

Adviser: Miss Tyrrell.

Courses will be available as needed and may be open to seniors by special permission if they have satisfactorily completed all the requirements for the major except the final examinations. A reading knowledge of at least one foreign language is required.

420 Research and Thesis.

421, 421a, 421b *Advanced Studies in Bacterial Cytology and Physiology*.

422, 422a, 422b *Advanced Studies in Virology*.

423, 423a, 423b *Advanced Studies in Pathogenic Bacteriology*.

424, 424a, 424b *Advanced Studies in Immunology*.

425, 425a, 425b *Advanced Studies in Pathogenic Fungi*.

THE MAJOR

Adviser: Miss Robinton.

Based on 120a and 121b.

Requirements. Eight semester courses, including the following: Chemistry 221b and 222; Microbiology 221 and 323b; and two optional courses to be chosen from Microbiology or from the following: Botany 211a, 212a, 312b; Chemistry 231, 332a, 342a; Mathematics 103a or b; Physics 115; Biological Sciences 101a, Zoology 132b, or any course (s) in Molecular, Cellular and Developmental Zoology, or Organismal and Regulatory Zoology.

Two examinations: one, a general examination in the major, the second in one of the fields.

Fields: General Microbiology, Pathogenic Microbiology, Public Health.

HONORS

Adviser: Miss Tyrrell.

THE BIOLOGICAL SCIENCES

Requirements: the same as those for the major with the addition of 322a and a thesis.

During the senior year the student will devote the equivalent of two semester courses to research and the thesis.

Three examinations: a comprehensive examination in microbiology; one field examination; an examination on a selected topic.

ZOOLOGY

Courses which may be used to fulfill the science requirement are: 100a or b, 132b, or any laboratory course in the fields for which the student has the prerequisites.

Students planning to major in Zoology are advised to take introductory courses in two of the three fields in the freshman year. A prerequisite for all these courses is 100a or b, or its equivalent (advanced placement, or an examination given by the department). Physics 115 and Mathematics 104a or b are strongly recommended. All majors are required to have a least one semester of introductory chemistry and should note that Chemistry 222 is a prerequisite for several courses.

- 100a *Principles of the Biological Sciences.* An introduction to the study of organisms centering on the evolution of systems by which the problems of the continuity and elaboration of life in the biosphere are met. The processes of self-maintenance, reproduction, dispersal and interrelationships are examined as common to all organisms. Three lectures and one three-hour laboratory. Lec. M T W 9; lab. M T Th F 2, Th 10. Mrs Laprade, Mr Shepard, Mr Gussin.
- 100b A repetition of 100a. Lec. M T W 9; lab. M T 2. Mr Gussin and members of the Department.
- 132b *Mammalian Zoology.* A study of the structure and function of mammalian organ systems with emphasis on man. (This course may not be used to fulfill the requirements for the Zoology major, but may, with the approval of the adviser, be counted toward a major in the General Biological Sciences.) Prerequisite: 100a or b, or the equivalent. Three lectures and two two-hour laboratories. Lec. M T 11, W 12; lab. M T 2-3:50, Th F 2-3:50. Miss Te Winkel, Miss Merrill, Mr de Villafranca.
- 336b *Ecology of Man.* The situation of man in nature as an evolutionary and historical complex. (This course may not be used to fulfill the requirements for the major.) Lec. W 7:30. Mr Shepard.

A. Molecular, Cellular and Developmental Zoology

- 101a *Cell Biology.* An introduction to the cellular and sub-cellular organization and function in representative examples from plants, animals, and unicellular organisms which illustrate the unity of biological material. Prerequisite: Chemistry 111a and 111b, or 112a or the equivalent, and Biological Sciences

THE BIOLOGICAL SCIENCES

100a or Botany 110a, or by permission of the instructor. Three lectures and one three-hour laboratory. Lec. Th F S 8:40; lab. T F 2. Mr de Villafranca, Miss Powell.

- 103b *Genetics*. A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite: Biological Sciences 100a or b, or Botany 110a and 111b, or permission of the instructor. Two lectures and one three-hour laboratory. Lec. Th F 2; lab. Th F 3 and independent work. Miss Powell.
- 230a *Cell Physiology*. Molecular and cellular aspects of contractility, irritability, conductivity, permeability, and respiration. Prerequisites: 101a, Chemistry 222, and Physics 111, or permission of the instructor. Three lectures and one three-hour laboratory. Lec. M T W 9; lab. M T 2. Miss Merrill, Mr Gussin.
- 231a *Embryology*. A study of gametes, fertilization, cleavage, gastrulation, and the early development of organ systems in amphibians, birds, and mammals. Prerequisite: 130a or permission of the instructor. Two lectures and two two-hour laboratories. Lec. and lab. Th F 2. Miss Te Winkel.
- 330b *Experimental Embryology*. A study of the experimental evidence for interacting systems in fertilization and in the differentiation of tissues and organs. Prerequisite: 231a. Two lectures and two two-hour laboratories. Lec. and lab. Th F 2. Miss Te Winkel.
- 331b *Molecular Biology*. The molecular basis of cell structure and function, with particular emphasis on protein structure, function and synthesis. Prerequisites: 230a and Chemistry 222. Three lectures, and one three-hour laboratory. Lec. M T W 10; lab. T 2. Mr de Villafranca, Mr Gussin.

B. Organismal and Regulatory Zoology

- 130a *Vertebrate Zoology*. Evolution of form and function in vertebrates. Three lectures and two two-hour laboratories. Lec. M T W 10; lab. Th F 9, 2. Miss Powell, Miss Hammons.
- 131b *Invertebrate Zoology*. A study of a wide variety of invertebrate animals with emphasis on their unique features as individual animals and their phylogenetic relationships. Two lectures and two two-hour laboratories. Lec. Th F 9; lab. Th F 10, 2. Mrs Laprade, Mr Davis.
- [232a *Protozoology*. Free-living and parasitic protozoa, their relationships to each other and to other animals, including man. Prerequisite: 100a or b, or an

THE BIOLOGICAL SCIENCES

equivalent. Two lectures and two two-hour laboratories. Lec. Th F 9; lab. Th F 10.]

- 233b *Histology*. A study of animal tissues including their origin; differentiation; functions; changes with environment and with age; and their arrangement in organs. Prerequisites: 101a and either 132b or 130a. Two lectures or demonstrations and two two-hour laboratories. Lec. or dem. Th F 9; lab. Th F 11. Miss Carpenter.
- [332a *Endocrinology*. A study of the role of the glands of internal secretion in regulating the activities of the organism; their development and changes with age; and their microscopic identification under normal and experimental conditions. Prerequisites: 233b and at least two semesters in Field A. Two lectures and two two-hour laboratories. Lec. Th F 9; lab. Th F 11. Miss Carpenter.]
- 333b *Comparative Physiology*. A study of homeostatic and integrative mechanisms in vertebrates and invertebrates. Prerequisites: 101a, 130a, 131b, Chemistry 111, or permission of the instructor. Three lectures and one three-hour laboratory. Lec. M T W 9; lab. M 2. Miss Merrill.
- 340b *Comparative Invertebrate Embryology*. An intensive study and comparison of developmental states and modes of reproduction among the invertebrate phyla with particular emphasis on the phylogenetic relationships. Alternates with 234b. Prerequisites: 131b, 231a. Three hours of lecture. M T W 12. Mr Davis.

C. Ecological Zoology

- 102a *Principles of Ecology*. A study of the relation of plants and animals to each other, as well as to the physical and chemical factors operating on them in different environments. Attention is given to populations, energy relationships, limiting factors, community organization, and succession. Three lectures and three hours of laboratory or field work. Lec. M T W 12; lab. or field work M T 2. Mr Davis and members of the Department.
- 133b *Evolution and Systematics*. Exploration of the processes producing direction and order in evolution, and increasing the diversity of life through the formation of new species. Lec. M T 11, W 12. Mr Shepard.
- 201b *Biogeography*. Study of major patterns of the distribution of life and of the environmental and historical factors determining these patterns. Prerequisite: 102a or 133b. Given in alternate years. Two two-hour meetings. Th F 9-10:50. Miss Horner, Mr Burk.

THE BIOLOGICAL SCIENCES

- [234b *Quantitative Ecology*. A study of the characteristics of communities, populations and ecosystems with biometric analysis of some of their features. Prerequisite: 102a. To alternate with 340b. One hour of lecture and five hours of laboratory. Lec. and lab. Th F 2. Mr Davis.]
- [334a *Population Genetics*. Principles of population genetics emphasizing genetic structure of populations. Forces changing gene frequencies in populations. Prerequisite: 103b. Lec. M T W 2.]
- 335b *Animal Behavior*. Study of vertebrate and invertebrate behavior; orientation, navigation, and migration; activity rhythms; social behavior, with emphasis on problems of communication; ethograms; learned and unlearned behavior as related to ecology and evolution. Prerequisites: three semesters from Fields B and C. One two-hour lecture and one four-hour laboratory. Lec. Th 11; lab. T 2. Miss Horner.
-
- [337a, 337b A seminar in each of the Fields A, B, and C. One semester required of senior majors. W 2. Members of the Department.]
- 338a, 338b *Special Studies*. By permission of the Department for senior majors who have passed one field examination. Members of the Department.
- 339a, 339b Honors research project, paper, review, and coordination. Members of the Department.

Graduate

Adviser: Mr de Villafranca.

Courses will be offered in each field as needed. They are open by permission to seniors who have satisfactorily completed all requirements for the major except the final examinations. A reading knowledge of one or more foreign languages is required.

- 430, 430a, 430b *Thesis*. Members of the Department.
- 431a or b *Advanced Studies*. Members of the Department.
- 432a or b *Recent Advances in Zoology*. Reading and Reports. W 7:30. Members of the Department.
- 433b *Fine Structure of Cells and Tissues*. Prerequisites: 230a, 233b; recommended 331b. Two-hour seminar. T 11 and four or more hours of independent work. Miss Carpenter.
- [434a *Advanced Vertebrate Anatomy*. Detailed comparative analysis of one or more organ systems with emphasis on functional and evolutionary considerations. Prerequisites: 130a, 231a, 233b. One hour of lecture and five or more hours of independent laboratory work. Miss Horner.]

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[436b *Physiological Genetics*. A study of research bearing on the problems of gene action and interaction. Prerequisites: 103b, 331b or the equivalent; recommended: Chemistry 342a. Three lectures.]

THE MAJOR

Advisers: Zoology members of the Department.

Based on 100a or b, or its equivalent, and an introductory course in one of the three fields listed below:

Fields: A. Molecular, Cellular, and Developmental Zoology.

B. Organismal and Regulatory Zoology.

C. Ecological Zoology.

Requirements: Nine semester courses, so distributed that competence is gained in two fields and at least one course taken in the third. All majors will be required to attend a one-semester, one-hour colloquium in one field during the senior year.

Examinations in two of the three fields. One examination may be taken at the end of the junior year by students who have completed three courses above the introductory level in the given field.

HONORS

Directors: Miss Te Winkel, first semester; Miss Horner, second semester.

Basis: the same as that for the major.

Requirements: Eight semester courses so selected that competence is gained in two fields and at least one course is taken in the third field; a seminar; and 339a or b (which includes the long paper).

Three examinations: A field examination, to be taken no later than the first semester of the senior year, in a field in which the student has completed at least one intermediate and one advanced course; and two examinations at the end of the senior year, one covering two fields in the major department and one which will constitute an oral presentation and defense of the thesis.

Premedical Courses

Adviser: Miss Tyrrell.

Students may prepare for medical school by majoring in any department, if they include in their programs courses which meet the minimum requirements for entrance to most medical schools. These requirements are: one year each of English,

THE BIOLOGICAL SCIENCES

inorganic chemistry, organic chemistry, physics, and general biology. Other courses often recommended are vertebrate zoology, genetics, embryology, physical chemistry, and mathematics through calculus. It is desirable for those interested in premedical preparation to elect four semesters of science or mathematics in their freshman year. Students should not elect courses which will later be taken in medical school.

Since medical schools differ in the details of their requirements, students should inquire as early as possible about the requirements of the schools of their choice in order to plan their programs appropriately.

See also the Intercollegiate Courses in the *History of Science*, p. 56.

CHEMISTRY

PROFESSORS:	KENNETH WAYNE SHERK, PH.D. MILTON DAVID SOFFER, PH.D. GEORGE STONE DURHAM, PH.D.
WILLIAM ALLAN NEILSON	
RESEARCH PROFESSOR:	² LOUIS FREDERICK FIESER, PH.D., SC.D. (HON.), D. PHARM. (HON.)
ASSOCIATE PROFESSORS:	†GEORGE MORRISON FLECK, PH.D. KENNETH PAUL HELLMAN, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	THOMAS HASTINGS LOWRY, PH.D.
TEACHING FELLOWS:	SEVGI BÖKE STANLEY, A.M. SUSAN ADAIR LAZARUS, A.B. BRENDA JEAN BOYER, B.S. SOL KOHEN, B.S. MARINA VELENTGAS, A.B., M.S.
RESEARCH FELLOW:	LÂLE AKA BURK, A.M.
LECTURER:	NANCY NIERING LOWRY, PH.D.

Courses which may be taken to fulfill the science requirement are 111a, 111b, 112a, 221b and Physical Science 193. (For Physical Science 193, see p. 55).

Students who are planning to major in chemistry should elect 112a and 221b (or 111a and 111b) in freshman year. They are advised to complete Mathematics 102a and 103b, or 103a and 104b, or 104a and 202b the first year, and Physics 115 the second year.

Students presenting entrance units in chemistry who elect 111a and b, or 112a and 221b are required to take the Departmental placement examination at the opening of College before the beginning of classes. On the basis of this examination, selected students will be given the opportunity to enter 112a.

Students who have received scores of 4 or 5 on the Advanced Placement examination may enter 222 and 221b in the freshman year. Others with comparable preparation and superior performance in the Departmental placement examination may also be allowed advanced placement.

111a *General Chemistry.* A basic course with emphasis on the relationships of the properties of matter to atomic and molecular structure. Fundamental principles of structure are developed; quantitative methods are stressed in the laboratory. Students who have not previously taken chemistry are required to attend one additional discussion period in the first semester. Three lectures and one three-hour laboratory. Lec. M T W 12 (additional discussion period M 11); lab. M T Th 2-4:50. Mr Hellman.

111b *General Chemistry.* The dependence of properties on structure is discussed; aspects of equilibria are studied in the laboratory, using methods of qualitative

and quantitative analysis. Three lectures and one three-hour laboratory. Prerequisite: 111a. Lec. M T W 12; lab. M T Th 2-4:50. Mr Hellman.

- 112a *General Chemistry, Upper Section.* General chemistry, with emphasis on comparative chemistry and equilibrium. Experiments utilizing quantitative analytical techniques are stressed in the laboratory. Open to selected students. Three lectures and one three-hour laboratory. Lec. M T W 12, and M 11 at the option of the instructor; lab. M 2-4:50. Mr Sherk.
- 221b *Structure and Energetics in Chemistry.* Applications of the principles of quantum theory, symmetry, equilibrium thermodynamics, and kinetics to problems in chemical structure and chemical reactivity. Prerequisite: 111a and b or 112a, or advanced placement. Three lectures and one three-hour laboratory. Lec. M T W 12; lab. M T 2-4:50. Mr Lowry, Mrs Lowry.
- 222 *Organic Chemistry.* An introductory course in the theory and practice of organic chemistry. Prerequisite: 111a and b or 112a, or advanced placement. Four lectures and one three-hour laboratory. Lec. M T W 10, W 11; lab. M T Th F 2-4:50. Mr Soffer, Mr Lowry.
- 231, 231a *Physical Chemistry.* Theoretical chemistry, including thermodynamics and kinetics in the first semester and phase rule, electrochemistry, and introductory quantum theory in the second. Prerequisite: 221b (after 1967-68), Mathematics 104a or b, and Physics 115, or by permission of the instructor. Four lectures and one three-hour laboratory. Lec. M T W 12, T 11; lab. M T 2-4:50. Mr Durham.
- 301, 301a, 301b *Special Studies.* By permission of the Department for senior majors.
- 332a *Organic Qualitative Analysis.* The separation, characterization, and identification of organic substances by physical and chemical methods; theory and practice. Prerequisite: 222. Two lectures and two three-hour laboratories. Lec. Th F 12; lab. Th F 2-4:50. Mrs Lowry.
- 333b *Quantitative Chemistry.* A quantitative study of equilibria in solution, especially as applied to volumetric and gravimetric methods of chemical analysis. Prerequisite: 231a. Two lectures and two three-hour laboratories. Lec. Th F 12; lab. Th F 2-4:50. Mrs Lowry.
- 342a *Biochemistry.* The chemistry of biologically active substances. Prerequisites: 222, 231a (concurrent registration in 231a by permission of the instructor), and an introductory course in a biological science. Two lectures and one three-hour laboratory. Lec. Th F 8:40-9:50; lab. M 2-4:50. Mr Hellman.
- 343a *Theoretical Organic Chemistry.* The relationship of molecular structure to chemical properties, with emphasis on organic reaction mechanisms. Pre-

CHEMISTRY

requisites: 222, 231, or by permission of the instructor. Three hours of lecture. Th F 10, F 11. Mr Lowry.

- 344b *Advanced Inorganic Chemistry*. Selected topics with emphasis on structural considerations. Prerequisites: 222, 231, or by permission of the instructor. Two hours of lecture and one three-hour laboratory. Lec. W 7:30-9:30; lab. M 2-4:50. Mr Sherk.
- 345a *Molecular Structure*. Current theories of molecular structure, and physical methods used in its investigation. Emphasis on the methods of group theory and of quantum mechanics. Electron, neutron, and X-ray diffraction; microwave, infra-red, Raman, and ultra-violet spectroscopy. Prerequisites: 222, 231, or by permission of the instructor. Lec. M T 8:40-9:50. Mr Lowry.

GRADUATE

Open to seniors by permission of the Department. It is suggested that students majoring in chemistry take at least one graduate course.

Adviser: Mr Soffer.

450, 450a, 450b *Research and Thesis*.

451a, 451b *Special Studies*.

- [455a *Chemical Kinetics*. Relationship between rates and mechanisms of chemical reactions, with emphasis on homogeneous reactions in solution. Prerequisites: 231, or its equivalent. Mr Fleck.]
- [455b *Statistical Thermodynamics*. Development of statistical mechanics according to the method of Gibbs, with emphasis on applications to chemical systems, and on relations between spectra and the thermodynamic functions. Introduction to thermodynamics of irreversible processes, and to non-equilibrium thermodynamics. Prerequisites: 231, or its equivalent. Mr Fleck.]
- 457b *Selected Topics in Biochemistry*. A detailed treatment, from the chemical standpoint, of selected topics of current biochemical interest. Prerequisites: 231a, 342a, and an introductory course in a biological science, or by permission of the instructor. Mr Hellman.
- 458b *Organic Reactions*. Discussion of selected organic reactions of current interest, with emphasis on theoretical aspects. Prerequisite: 343a or by permission of the instructor. Mr Lowry.
- 459b *Carbocyclic Natural Products*. The chemistry of terpenic and steroid substances, with particular emphasis on methods of structural investigation and synthesis. Mr Soffer.

CHEMISTRY

THE MAJOR

Advisers: Members of the Department.

Based on 222.

Requirements: Eight semester courses, including the following: 231, 332a or 333b, and two additional courses in chemistry; Mathematics 104a or the equivalent; and Physics 115.

Recommended courses: Mathematics 202a or b, German 111 or Russian 101, and Chemistry 332a, 333b, 344b, 345a.

The above program, including both required and recommended courses, meets the requirements of the American Chemical Society for eligibility for professional standing.

Two examinations: one covering, at an intermediate level, general, organic, and physical chemistry, to be taken at the end of the junior year; the other, a field examination, normally to be taken at the end of the senior year.

Fields: Physical Chemistry.

Inorganic Chemistry.

Organic Chemistry.

Biochemistry.

HONORS

Director: Mr Durham.

Based on 222.

Requirements: Eight semester courses, including the following: 231, 332a or 333b, and two additional courses in chemistry, Mathematics 104a or the equivalent, and Physics 115; and an honors unit involving an individual investigation pursued throughout the senior year.

Recommended courses: Mathematics 202a or b, German 111 or Russian 101, and Chemistry 332a, 333b, 343a, 344b, 345a.

Three examinations: two written examinations, one in the area of physical and inorganic chemistry, and one in the area of organic chemistry (and biochemistry); and an oral presentation of the honors thesis.

CLASSICAL LANGUAGES & LITERATURES

PROFESSORS:	GEORGE EDWARD DIMOCK, JR., PH.D. CHARLES HENDERSON, JR., PH.D., <i>Chairman</i>
INSTRUCTORS:	ROBERT THEODORE STEWART BAXTER, A.B. ANN CORNELL SHEFFIELD, M.A.

Majors are offered in Greek, Latin, Classics, and Ancient Studies. Properly qualified students in these majors have the opportunity of a semester's study at the Intercollegiate Center for Classical Studies in Rome. See p. 48.

Students planning to major in classics or in ancient studies are advised to take relevant courses in other departments, such as art, history, philosophy, and modern languages.

GREEK

- 111 *Elementary Course.* Introduction to the language; selections from Greek literature. Five class hours. M T W Th F 9. Miss Sheffield.
- 212a *Plato: Selected Dialogues.* Prerequisite: two units in Greek or 111. M T W 9. Mr Dimock.
- 212b *Homer, Iliad.* Prerequisite: 212a or permission of the instructor. M T W 9. Mr Dimock.
- 301a, 301b *Special Studies.* By permission of the Department for majors who have had four advanced courses in Greek.
- 321a *The Drama: Sophocles and Euripides.* Prerequisite: 212b or three units in Greek. M T W 3, M 4 at the option of the instructor. Miss Sheffield.
- 322b *Homer.* Prerequisite: 321a or permission of the instructor. M T W 3, M 4 at the option of the instructor. Miss Sheffield.
- [323a *Herodotus.* Prerequisite: 212b or three units in Greek. To be given in 1968-69.]
- [324b *The Drama: Aeschylus and Aristophanes.* Prerequisite: 323a or permission of the instructor. To be given in 1968-69.]
- [331a *Greek Historians.* Prerequisite: 322b, 324b, or permission of the instructor. To be given in 1968-69.]
- [332b *Drama.* Prerequisite: 322b, 324b, or permission of the instructor. To be given in 1968-69.]

CLASSICAL LANGUAGES & LITERATURES

333a *Selections from Lyric and Pastoral Poets.* Prerequisite: 322b, 324b, or permission of the instructor. M T W 10, W 11 at the option of the instructor. Mr Dimock.

334b *Plato.* Prerequisite: 322b, 324b; or permission of the instructor. M T W 10, W 11 at the option of the instructor. Mr Dimock.

451a, 451b *Studies in Greek Literature.* (This will ordinarily be an enriched version of 331a, 332b, 333a, or 334b.)

RELIGION 327b *Greek New Testament.* Prerequisite: Greek 111, or the equivalent. Hours to be arranged. Mr Wijnhoven.

Adviser of graduate study: Mr Dimock.

LATIN

111 *Elementary Course.* Introduction to the language; selections from Latin literature. Five class hours. T Th F 8:40, W 9, S 9 at the option of the instructor. Mr Baxter.

112a *Poetry of Ovid.* Prerequisite: two units in Latin or 111. Th 10, F 10-11:50, S 10 at the option of the instructor. Miss Sheffield.

112b *Virgil, Aeneid.* Prerequisite: 112a or permission of the instructor. Th 10, F 10-11:50, S 10 at the option of the instructor. Mr Baxter.

214a *Catullus and Horace.* Prerequisite: 112b or three units in Latin, including Virgil. M T W 10, W 11 at the option of the instructor. Mr Henderson.

214b *Livy.* Prerequisite: 214a or permission of the instructor. M T W 10, W 11 at the option of the instructor. Mr Henderson.

301a, 301b *Special Studies.* By permission of the Department for majors who have had four advanced courses in Latin.

321a *Roman Comedy.* Prerequisite: 214b or permission of the instructor. M T W 2. Mr Henderson.

322b *Medieval Latin.* Prerequisite: 214b or permission of the instructor. M T W 2. Mr Henderson.

[323a *Sallust and Tacitus.* Prerequisite: 214b or permission of the instructor. To be given in 1968-69.]

[324b *Latin Elegy and Pastoral Poetry.* Prerequisite: 214b or permission of the instructor. To be given in 1968-69.]

[333a *Virgil.* Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. To be given in 1968-69.]

CLASSICAL LANGUAGES & LITERATURES

- [334b *Latin Satire*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. To be given in 1968-69.]
- 335a *Cicero*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. Th 11-12:50, F 12, S 11 at the option of the instructor. Mr Baxter.
- 336b *Lucretius*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. Th 11-12:50, F 12, S 11 at the option of the instructor. Mr Baxter.
- 337 *History of Latin Literature*. Prerequisite: 321a, 322b, 323a or 324b, or permission of the instructor. M T W 12, M T 11 at the option of the instructor. Mr Henderson.
- 451a, 451b *Studies in Latin Literature*. (This will ordinarily be an enriched version of 333a, 334b, 335a, or 336b.)

Adviser of graduate study: Mr Henderson.

CLASSICS IN TRANSLATION

- 118a *Masterpieces of Classical Literature I*, including such works as Homer's *Odyssey*; Virgil's *Aeneid*; Ovid's *Metamorphoses*; Herodotus; Thucydides; Livy; Tacitus. Th 10, F 10-11:50, S 10 at the option of the instructor. Mr Baxter.
- [118b *Masterpieces of Classical Literature II*, including such works as Euripides' *Alcestis*, *Medea*, *Hippolytus*, *Bacchae*; Plato's *Republic*, *Phaedo*; Lucretius' *De Rerum Natura*; St. Augustine's *Confessions*.]
- [227a *Classical Romance, Pastoral and Satire*.]
- 229b *Classical Drama*. Representative plays of Aeschylus, Sophocles, Euripides, and Aristophanes. Th 10, F 10-11:50, S 10 at the option of the instructor. Miss Sheffield.

THE MAJOR IN GREEK, LATIN, OR CLASSICS

Advisers: Greek, Mr Dimock; Latin and Classics, Mr Henderson.

Basis: In Greek, 111; in Latin, 112b; in Classics, both.

Requirements: In Greek, eight semester courses in the language; in Latin, eight semester courses in the language, including 337; in Classics, eight semester courses in the languages, including at least two in one language.

CLASSICAL LANGUAGES & LITERATURES

Two examinations: one, a comprehensive examination, will have two parts: part one, to be taken before the end of the junior year, will test the candidate's ability to read Greek or Latin, or both; part two, which may be taken later, will test her general knowledge of Greek or Roman literature and culture, or both. The second examination will test the candidate's mastery of her special field. Classics majors may choose from the fields listed under Greek and Latin as well as from those listed under Classics.

Fields: Greek: Comedy; Drama; Epic; History; Lyric, Elegiac, and Pastoral; Oratory; Tragedy; Selected authors.

Latin: Augustan literature; Comedy; Epic; History; Lyric, Elegiac, and Pastoral; Oratory; Satire; Selected authors.

Classics: Biography; Comedy; Epic; History; Lyric; Oratory; Philosophy; Satire; Selected authors.

HONORS IN GREEK, LATIN, OR CLASSICS

Directors: In Greek, Mr Dimock; in Latin, Mr Henderson; in Classics, Mr Dimock.

Requirements: The same as those for the major, with the addition of a long paper, equivalent to one or two semester courses, to be written in the first semester of the senior year.

Three Examinations: One in Latin, or Greek, or in both languages, to be taken at the end of the junior year; a departmental examination in Greek or Roman literature and culture, or both; and a field examination in classical literature.

ANCIENT STUDIES

For description of the Interdepartmental Major in Ancient Studies, see p. 200.

ECONOMICS

PROFESSORS:	DOROTHY CAROLIN BACON, PH.D. GEORGE FISK MAIR, PH.D. †KENNETH HALL MCCARTNEY, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	ROBERT TABOR AVERITT, PH.D., <i>Acting Chairman</i>
ASSISTANT PROFESSORS:	PETER MYLES COSTELLO, PH.D. ROBERT DEAN BRITT, PH.D. *DAVID ALLAN OLSON, A.M. FRED HENRY LEONARD, PH.D. REUBEN GEORGE MILLER, PH.D.
INSTRUCTOR:	GERALD LOUIS FOX, M.A.
LECTURER:	¹ RICHARD SLATER MARTIN, PH.D.

Freshmen who are considering a major in the Department and who hope to spend their junior year abroad are strongly advised to take 110a and 110b in the freshman year and to take additional courses in economics in their sophomore year.

A. General Courses

- 110a *The Structure and Functioning of Modern Economies.* An introduction to the economics of national income, employment, and economic growth; the major determinants of prosperity, recession, and depression including money and the banking system, saving and investment, and the economic policies of government. Lec. W 7:30-8:20; sect. M T 9, 12, 2, Th F 9, 10. (Special intensive sections on economic theory and its application to the U.S. economy and underdeveloped countries: Th 11-12:50, F 12.) Members of the Department. Mr Averitt (*Director*).
- 110b *The Structure and Functioning of Modern Economies.* How the components of an economic system interact, including the role of prices, supply and demand, and competition and monopoly; an introduction to the international economy and the Soviet economy. 110a is not a prerequisite for 110b. Lec. W 12; sect. M T 9, 12, 2; Th F 9, 10. Members of the Department. Mr Averitt (*Director*).
- [259a *Development of Western Economic Society, 1750-1870.* Economic revolution in the West. An introductory study of the creation of industrial society in Britain and its diffusion to Western Europe and the United States. M T W 2.]
- 260b *Development of Western Economic Society, 1870 to the Present.* Problems of capitalist society. The problems faced by mature industrial capitalism and the economic solutions evolved by Western society. M T W 2. Mr Britt.

B. Economic Theory

- 250b *The Price System.* The theory of price and output determination, the behavior of consumers and producers under various market structures and the welfare implications of various solutions. Prerequisite: 110b or the completion of 110a with a grade of B or better. W Th F 2. Mr Costello.
- 253a *Income, Employment, and Growth.* A consideration of aggregative economic theory as a framework for analyzing the determination of the level, and changes in the level, of national output. Prerequisite: 110a or the completion of 110b with a grade of B or better. M T W 10, Th 10-10:50, F 10-11:50. Mr Leonard, Mr Britt.
- 265a *Theory of Income Distribution.* An examination of the theory and contemporary issues pertaining to the distribution of income and wealth. Prerequisites: 110a or 253a and 110b or 250b. Hours to be arranged. Mr Britt.
- 270a *History of Economic Thought.* A study of the major economists from Adam Smith through John Maynard Keynes; their contribution to economics; the uses made of their work; the intellectual climate of their time; an appraisal of the intellectual heritage of contemporary economics. W Th F 3. Mr Miller.
- 280b *Economic Statistics.* Introduction to statistical reasoning and its application to economics. Elementary sampling, statistical inference, correlation, regression, index numbers, time series, and selected applied topics. M T 10-10:50, W 10-11:50. Mr Fox.
- [401b *Graduate Seminar: Contemporary Economic Theory.* Advanced study of current economic theories and methodology. Hours to be arranged. Mr Averitt.]

C. The American Economy

- 215a *Social Control of Industry.* Analysis and critique of the structure, conduct, and performance of industrial markets. The nature of public control and regulation of business through the antitrust laws and the regulatory commissions. Prerequisite: 110b or 250b. W Th F 2. Mr Costello.
- 220b *Labor Problems and Public Policy.* The nature of labor problems in an industrial society. The development of labor organizations, and the impact of the process of collective bargaining on employment conditions. The role of the trade union in a free economy, and evolution of public policy toward labor-management relations. Prerequisite: 110b or 250b. M T 11-12:10. Mr Britt.
- 225b *Monetary and Fiscal Policy.* Monetary and fiscal policies will be considered with respect to their effectiveness in achieving the economic goals of full

ECONOMICS

- employment, growth, price stability, and an acceptable balance of payments. Prerequisite: 110a or 253a. Th 10-10:50, F 10-11:50. Mr Leonard.
- 228a *American Economic Structure: Contemporary Problems.* Organization of the United States economy; ideological justifications; regional differences; the role of large and small business; the economic impact of government on agriculture, defense industries, and cities. Prerequisite: 110b or 250b. Recommended background: 110a or 253a. W Th F 3. Mr Averitt.
- 230a *Urban Economics.* Introduction to the role of the city in the national economy and in regional economic development. Primary emphasis on the economic determinants and consequences of city size, and on the economic interrelationship among cities. Urban renewal will be examined as a special problem. Th F S 10, F 11 at the option of the instructor. Mr Fox.
- 240b *The United States Financial System.* A study of the macro- and micro-economic aspects of the problem of financing public and private economic activity, employing an analytic treatment of the structure and function of the various institutions that make up the U.S. financial system. W Th F 3. Mr Miller.
- [311b *Seminar: Major Economic Issues in American Presidential Campaigns.* Background and nature of the issues, opinions of contemporary economists, and the impact on the economy of subsequent government action. Mr Britt.]
- 315a *Seminar: Industrial Organization.* Contemporary and traditional issues in the social control and performance of industrial markets. Prerequisites: 215a or 216b, and 250b or 251a. Th 11-12:50. Mr Costello.
- [320a *Seminar: Problems in Labor Economics.* Study of selected contemporary problems and issues of labor relations and manpower economics in their institutional and theoretical framework. Prerequisites: 220b or 221b, and 250b or 251a. T 4-5:50. Mr McCartney.]
- 325b *Seminar: Problems in Stabilization and Growth.* Current problems in the United States with emphasis on the results of monetary and fiscal policies and controversy over their relative effectiveness in achieving the nation's economic objectives. Prerequisites: 225b or 226a, and 250b or 251a. Th 7:30. Mr Leonard.
- [HISTORY AND SOCIAL SCIENCE 395b. *Interdepartmental Seminar in Economics, Government, History, and Sociology.*]

D. International and Comparative Economics

- 205a *International Economic Problems.* Introduction to postwar international economic problems, and their historical and theoretical backgrounds. Prerequisites: 110a or 253a and 110b or 250b. Th 11-12:50, F 12. Mr Miller.

- 209b *Comparative Economic Systems.* Description, underlying theories, problems, changes, and trends in the economies of the U.S. and the U.S.S.R. in recent years. Prerequisites: 110a or 253a and 110b or 250b, or permission of the instructor. M T W 9. Mr Olson.
- 211b *Problems of Underdeveloped Countries.* A comparative study of the economies of selected underdeveloped countries in their political and social setting. Prerequisites: 110a or 253a and 110b or 250b, or permission of the instructor. M 3-4:50, T 3. Miss Bacon.
- 214b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. M T W 9. Mr Mair.
- 285a *Problems of Growth in Advanced Countries.* Study of economic development in advanced societies with special emphasis on Western Europe. The course will focus on the institutions, problems, and policies of the twentieth century. Prerequisites: 110a or 253a and 110b or 250b, or permission of the instructor. M 3-4:50, T 3. Mr Britt.
- 305a *Seminar: Topics in International and Comparative Economics.* The seminar is conducted as a workshop project. T 4-5:50. Miss Bacon.
- 309b *Seminar: Contemporary Economic Problems in the Soviet Union.* Selected current problems in the economy of the U.S.S.R. M 7:30. Mr Olson.
- 318b *Seminar: Latin American Economics.* The structure and potential for development of selected Latin American economies. Prerequisites: 110a and 110b, or permission of the instructor. Recommended background: a course in Latin America or underdeveloped areas. Th 4-5:50. Mr Averitt.
- [323b *Seminar: Economic Development in Africa South of the Sahara.* Comparative examination and analysis of economic characteristics and development problems of selected African countries. Prerequisites: 110a and 110b, or permission of the instructor. Recommended background: a course in Africa south of the Sahara or underdeveloped areas. T 4-5:50. Mr McCartney.]
- [335b *Seminar: Comparative Labor.* Analysis of some issues relating to the labor force, labor markets, and the nature of the labor movements in selected foreign countries, both advanced and underdeveloped. Comparative study of public policies with respect to labor problems. The role of international organizations in the field of labor relations. By permission of the instructor. T 4-5:50. Mr McCartney.]

ECONOMICS

301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had four semester courses in economics above the introductory level.

HONORS COURSES

These courses are designed primarily for honors candidates. Non-honors majors may be admitted if they have *both* the stated prerequisites *and* permission of the instructor.

Economic Theory

- [251a *The Price System*. The theory of price and output determination, the behavior of consumers and producers under various market structures and the welfare implications of various solutions. Prerequisite: 110b. W Th F 2. Mr Fox.]
- 254b *Income, Employment, and Growth*. A consideration of aggregative economic theory as a framework for analyzing the determination of the level, and changes in the level, of national output. Prerequisite: 110a. Th 10, F 10-11:50. Mr Miller.

The American Economy

- 216b *Industrial Organization*. Contemporary analysis of economic performance in industrial markets. The role of public policy in affecting various dimensions of performance. Prerequisite: 251a. Th 11-12:50, F 12-12:50. Mr Costello.
- [221b *Labor Problems and Public Policy*. Analysis of the labor force, labor markets, and the economic impact of trade unions. Selected problems in public policy related to the labor market. Prerequisite: 251a. M 3-4:50, T 3. Mr McCartney.]
- 226a *Monetary and Fiscal Policy*. Monetary and fiscal policies will be considered with respect to their effectiveness in achieving the economic goals of full employment, growth, price stability, and an acceptable balance of payments. Prerequisite: 254b. Th 7:30. Mr Leonard.

International and Comparative Economics

- [206a *International Economics*. Principles of international economics and their application to postwar economic problems. Prerequisite: 251a. Th 11-12:50, F 12-12:50.]

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- [210b *Comparative Economic Systems: Theory and Problems.* Consideration of the polar theoretical economic models: Capitalism and Communism, with primary emphasis on analysis and problems of various in-between models and real systems, e.g., the U.S.S.R., Yugoslavia, France. Prerequisites: 251a and 254b, or permission of the instructor. M T W 10. Mr Olson.]
- [212a *Economics of Underdeveloped Countries.* The processes and problems of stimulating growth in underdeveloped countries. Prerequisite: 251a.]

THE MAJOR

Advisers: Miss Bacon, Mr McCartney, Mr Averitt, Mr Britt, Mr Olson, Mr Leonard.

Basis: 110a and 110b *or*, for students who have received a grade of B or better in either of these courses, one of the following combinations: 110a and 250b *or* 110b and 253a.

Requirements: a minimum of eight semester courses and seminars, of which three must be selected from one of the three fields: Economic Theory, The American Economy, and International-Comparative Economics; two must be selected from one other field in the Department; and three optional courses or seminars must be elected from its offerings.

Two examinations: an examination in the field of concentration selected by the student, based on a minimum of three courses in that field; a comprehensive examination.

Fields: Economic Theory.

The American Economy.

International-Comparative Economics.

Area Studies

Majors may concentrate in an interdepartmental area rather than a departmental field, in which case an examination in the given area will replace the written field examination. In consultation with an adviser, a program may be established based on: (a) a minimum of six courses or seminars in the Department, of which three must be selected from the International-Comparative field; and (b) two additional courses or seminars selected from an approved list of offerings in related departments.

Majors may spend the junior year abroad if they meet the College requirements.

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HONORS

Director: Miss Bacon.

Based on: 110a or 110b *or*, for students who have received a grade of B or better in either of these courses, one of the following combinations: 110a and 250b *or* 110b and 253a.

Requirements: eight semester courses, including the following: 250b or 251a, and 253a or 254b; six additional courses or seminars, of which three must be elected from the offerings in one field; and a long paper written in the first semester of the senior year, equivalent to one semester course.

Three examinations: a written general examination; a written examination in one of the fields listed under the major, based on three courses in that field; and an oral examination which will be a defense of the long paper and related materials and must be taken before the spring recess in the second semester of senior year.

EDUCATION & CHILD STUDY

PROFESSOR:	HELEN EVANGELINE REES, ED.D., Director, Preschool and Elementary School Teacher Preparation
ASSOCIATE PROFESSOR:	LAWRENCE A. FINK, ED.D., Director, Secondary School Teacher Preparation, <i>Chairman</i>
ASSISTANT PROFESSOR:	SEYMOUR WILLIAM ITZKOFF, ED.D.
TEACHER FELLOWS:	MARIAN WARD DEAN, A.B. PAULA RUTH MURPHY, B.S. SHARON SAVAGE PETERSON, A.B.
LECTURERS:	JOHN JOSEPH FEENEY, M.ED. ISOBEL REYMES KING, A.M. ELSIE HARRIET KOESTER, A.M. ROBERT M. MORIARTY, M.ED. NELSON R. OHMART, ED.M.

Students, irrespective of major, who desire to comply with the varying requirements of different states for certificates to teach in public elementary and secondary schools are urged to consult the appropriate Department Director as early as possible during their college course.

Students planning to major in Education and Child Study are advised to take the introductory course in Field A in the freshman year.

A. Historical and Philosophical Perspectives

- 121b *Foundations of Education.* Historical and philosophical background of modern education. Study of the educational thought of Plato, Augustine, Locke, Rousseau, Dewey, and others. M T W 3-3:50. Mr Itzkoff.
- [234a *Theories of Knowledge and the Curriculum.* The structure and purpose of knowledge in relation to concepts of man and the subject matter of education: science, art, the humanities. Approached through historic and contemporary sources. M 3-4:50, T 3-3:50. Mr Itzkoff.]
- 236a *American Education.* Evolution of American educational thought and institutions; the development of American education related to the growth of the nation and the changing social order. M T W 10-10:50. Mr Fink.
- 337b *Comparative Education.* An examination of the values of national cultures as exemplified in their educational objectives. Individual research and application to contemporary educational problems in the international context. M 11-12:50, T 11-11:50. Mr Itzkoff.

EDUCATION & CHILD STUDY

B. The Educational Process

- 231a *The Child in Modern Society.* The place of the child in society; mental hygiene of early childhood; social and educational agencies concerned with child welfare. Directed observations. Th F 1:40-2:50. Mrs King.
- 232b *Foundations of Secondary Education.* A study of the American secondary school as changing social institution. An analysis of teachers, students, and curriculum; urban problems; the Negro and education. Directed classroom observation. Not open to freshmen; sophomores admitted only by permission of the instructor. M T 8:40-9:50. Mr Fink.
- 235a *The Child and Modern Preschool and Elementary Education.* A study of the growth and development of children from early years to adolescence in relation to the educative process; the basic principles of teaching as an introduction to participation in the classroom. Two class hours and directed observations, and some participation in classroom teaching. Not open to freshmen; sophomores admitted only by permission of the instructor. T W 9. Miss Rees.
- 235b A repetition of 235a. T W 12. Miss Rees.
- 239b *Educational Evaluation and Guidance.* Study of the various means of evaluating learning and teaching; principles of guidance as they affect growth and development throughout the school years. A laboratory period will be arranged. W 7:30. Mr Ohmart.
- 342b *The Teaching-Learning Process.* A course in educational psychology dealing with current research in the several aspects of the educative process at all levels, including depth and breadth of knowledge, potentiality, creativity, and values. By permission of the instructor. M 7:30. Miss Rees.
- 347a *Advanced Child Study.* Pertinent research and practice in the study of today's children from early childhood through adolescence within the framework of the educative process as influenced by deprivation. By permission of the instructor. M 7:30. Miss Rees.

The following courses offer opportunity for directed classroom teaching.

- [316a *The Teaching of Music.* Theory and practice of music education in the pre-school and elementary grades. Opportunity for practice teaching. Prerequisite: 235a or b. Recommended background: Music 111. M 7:30.]

EDUCATION & CHILD STUDY

- 316b *The Teaching of Music.* Advanced music education with opportunity for observation and practice teaching in public and private secondary schools. Prerequisite: 316a or Music 223. Th 7:30.
- 318a, 318b *The Teaching of History and the Social Studies.* A course for prospective teachers of history and social studies at the secondary level. Classroom procedure and curriculum in secondary school history and related subjects; organization and presentation of subject matter. Two class hours with observation and directed intern teaching. Prerequisite for 318a: 232b or permission of the instructor; for 318b: 318a. M 3-4:50. Mr Fink.
- 345 *Preschool and Elementary Education.* A study of the curriculum and the application of the principles of teaching in the modern preschool and elementary school through grade nine. Two class hours and participation in directed classroom teaching. Prerequisite: 235a or b taken previously or concurrently, and permission of the instructor. T 4-5:50. Miss Rees, Mrs Koester.
- 346a, 346b *Curriculum and Intern Teaching in Secondary Schools.* Two class hours and directed teaching for students for whom no special methods course is available. Prerequisite for 346a: 232b or permission of the instructor; for 346b: 346a. T 4-5:50. Mr Itzkoff, Mr Feeney.
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301a, 301b Special Studies.

- 340a Seminar for discussion and directed reading, integrating fields A and B. Hours by arrangement. Members of the Department.

Related courses recommended in other Departments.

- [222a *Educational Psychology.* The educational process considered from the point of view of psychology. The application of psychological principles of development, motivation, and learning to contemporary educational problems. M T W 12. Mrs Musgrave. Psychology]
- 222b A repetition of 222a. No prerequisite. Mrs Teghtsoonian. [Psychology]
- 223a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Th F S 9. Mrs Craig. [Psychology]
- 223b A repetition of 223a. M T W 9. Mrs Craig. [Psychology]

EDUCATION & CHILD STUDY

- 224b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. [Psychology]
- 300a or b *The Teaching of Spanish.* Problems and methods in the teaching of the Spanish language; practice teaching. Hours to be arranged. [Hispanic Studies]
- 302a, b *The Teaching of English.* A course for prospective teachers of English in secondary schools. The teaching of composition and literature. Selection and presentation of material. Demonstration and practice. By permission of the instructor. M T W 2. Mrs Bramwell. [English]
- 305a *The Teaching of Art.* Theory and practice of art in the elementary and secondary school. For juniors and seniors by permission of the instructor. Recommended background: Art 160 and Education 235a, or b. M 7:30-10. Mrs Jules. [Art]
- 306b *The Teaching of Art.* Continuation of 305a. By permission of the instructor. M 7:30-10. Mrs Jules. [Art]
- 310a *The Teaching of French.* Problems and methods of modern language teaching in the elementary and secondary schools. Practice teaching at these levels in the Northampton schools. By permission of the instructor. W 7:30. Mr Buteau. [French]
- 310b A continuation of 310a. Prerequisite: 310a or permission of the instructor. W 7:30. Mr Buteau. [French]
- 311a, b *The Teaching of Physics.* A one- or two-semester course for prospective teachers of secondary school physics. Hours to be arranged. Mr Rice. [Physics]
- 324b *Seminar in Health Education.* Problems in the dissemination of accurate public health information to the individual and to the community. Th 7:30. Miss Robinton. [The Biological Sciences: Microbiology]
- 331a *Speech for the Classroom Teacher.* The development of speech in the child, problems of defective speech, speech arts in the classroom, and the speech of the teacher. Voice recordings. Th F 2-2:50. Miss Fitch. [Theatre and Speech]
- 332b *Oral Interpretation of Children's Literature.* A critical study of children's literature. The techniques of its oral interpretation. Practical experience in story-telling, reading aloud, and other forms of classroom presentation. Individual voice and speech practice. Th 2-2:50, F 2-3:50. Miss Fitch. [Theatre and Speech]

EDUCATION & CHILD STUDY

- 344b *Child Psychology* (seminar). Selected problems, reports, and discussion.
Prerequisite: Psychology 223a or b. Th 7:30. Mrs Craig. [Psychology]

GRADUATE

Advisers: Miss Rees and Mr Fink.

400a, b Thesis. Members of the Department.

401a, b Advanced Studies. Open to seniors by permission of the Department.
Members of the Department.

410a *Current Problems in Child and Adolescent Development*. Th 4-5:50. Mrs Koester.

452a *Problems of American Education*. Required of all candidates for the M.A., the Ed.M., and the M.A.T. degrees. W 7:30. Mr Itzkoff.

454b *Current Problems of Preschool and Elementary Education*. Th 4-5:50. Mrs Koester.

[455a, b *Secondary Education*. T 4-5:50. Mr Fink, Mr Itzkoff.]

[456b *Higher Education*.]

459a, b *Intern Teaching*. Members of the Department.

THE MAJOR

Students majoring in the Department may prepare for preschool or elementary school teaching or for graduate work leading to an advanced degree. Students who intend to teach in secondary school are advised to major in the field in which they expect to teach and to take basic courses in education.

Adviser: Miss Rees.

Basis: 121b.

Requirements: eight semester courses selected in consultation with the major adviser.

Usually they will consist of two courses in Field A in addition to the basis; 235a or b and 345 in Field B; two additional courses at an advanced level chosen from Department offerings or from the list of related courses; and Education 340a.

Two examinations: one in each of the two departmental fields.

Fields: A. Historical and Philosophical Perspectives.

B. The Educational Process.

EDUCATION & CHILD STUDY

HONORS

Director: Mr Fink.

Basis: 121b.

Requirements: those listed in the major; a long paper, the equivalent of one semester course, in the senior year.

Three examinations: one in each of the two departmental fields; a third in a more specialized field selected in consultation with the director.

ENGLISH LANGUAGE & LITERATURE

PROFESSORS:	†HELEN WHITCOMB RANDALL, PH.D. DANIEL AARON, PH.D. ELEANOR TERRY LINCOLN, PH.D. *ROBERT TORSTEN PETERSSON, PH.D. KENNETH AMOR CONNELLY, JR., PH.D. VERNON JUDSON HARWARD, JR., PH.D., <i>Chairman</i> PAUL PICKREL, PH.D. **FRANK H. ELLIS, PH.D.
ELIZABETH DREW	
VISITING PROFESSOR:	¹ CHRISTOPHER B. RICKS, B.LITT.
WRITER IN RESIDENCE:	² JOHN E. WILLIAMS, PH.D.
ASSOCIATE PROFESSORS:	†RICHARD BENJAMIN YOUNG, PH.D. **FRANCIS MURPHY, PH.D. †WILLIAM HOOVER VAN VORIS, PH.D. ELIZABETH GALLAHER VON KLEMPERER, PH.D. WILLIAM THOMAS HARVEY YOUNGREN, PH.D.
ASSISTANT PROFESSORS:	JOAN MAXWELL BRAMWELL, M.A. CARL ROBINSON SONN, LL.B., A.M. HAROLD LAWRENCE SKULSKY, PH.D. MARY CARRUTHERS SCHROEDER, PH.D. DAVID CAVITCH, PH.D. MARGARET L. SHOOK, PH.D. MAURIANNE SCHIFREEN ADAMS, PH.D.
INSTRUCTOR:	JANICE L. WILSON, M.A.
LECTURERS:	MICHAEL ALLEN, M.A. RON D. K. BANERJEE, M.A. ¹ ANNE HALLEY CHAMETZKY, M.A. PATRICIA HOFFMAN CLEGHORN, A.B. ¹ CHARLES JARVIS HILL, PH.D. RONALD HINDMARSH, B.A. GARY MASON MCCOWN, A.M. ¹ MARK EDWIN ROLLINS, M.A. ¹ EDNA REES WILLIAMS, PH.D.

Freshmen eligible for advanced placement in English and all sophomores may register for all intermediate courses except those from which they are specifically excluded.

ENGLISH LANGUAGE & LITERATURE

Freshmen may become eligible for advanced placement by achieving a score of 4 or 5 on the College Board Advanced Placement Examination or achieving a comparable mark on the departmental placement examination.

Students planning to major in English are encouraged to take allied courses in classics, modern European literature, history, philosophy, religion, and art.

- 111a *Structure and Style in Writing*. Systematic practice in solving basic problems in writing. M T W 3; T 11-12:50; W 12; W Th F 3-3:50; Th F S 9; Th 10, F 10-11:50. Mr Ellis (*Director*).
- 111b A repetition of 111a. T 11-12:50, W 12 at the option of the instructor. Mrs Schroeder (*Director*).
- 112a *Introduction to College English for Foreign Students*. Th 3-4:50. Miss Williams.

A. Language and Literature

- 114a *Fiction A: The Structure of Fiction*. A study of the elements of the short story, novella, and novel, including works by Melville, Hawthorne, James, Conrad, and Faulkner. M T W 12, 2; W Th F 3-3:50; Th F 8:40-9:50, S 9 at the option of the instructor; Th 10, F 10-11:50; Th 11-12:50, F 12, S 11 at the option of the instructor. Mr Cavitch (*Director*).
- 114b *Fiction B: Forms of the Novel*. A study of novels by Fielding, Austen, Eliot, Hardy, Lawrence, and others. 114a is *not* a prerequisite. M T W 2; W Th F 3-3:50; Th F 8:40-9:50, S 9 at the option of the instructor; Th 10, F 10-11:50, Th 11-12:50, F 12, S 11 at the option of the instructor. Mr Cavitch (*Director*).
- 115a *Drama A: Tragedy*. Plays by Marlowe, Shakespeare, Webster, T. S. Eliot, and others, with emphasis on tragic themes and techniques. M T 1:40-2:50; M T W 9, 12, 3-3:50. Mr Sonn (*Director*).
- 115b *Drama B: Comedy*. Plays by Jonson, Shakespeare, Shaw, Beckett, and others, with emphasis on comic themes and techniques. 115a is *not* a prerequisite. M T 1:40-2:50; M T W 3-3:50. Mr Sonn (*Director*).
- 116a *Poetry A: The Structure of Poetry*. A critical study of its elements, with emphasis on the lyric from the Renaissance to the present. M T 8:40-9:50; M T W 2. Mr Murphy (*Director*).
- 116b *Poetry B: Forms of Poetry*. Narrative, epic, and satiric poems from Spenser to T. S. Eliot. 116a is *not* a prerequisite. M T W 12, 2; W Th F 3-3:50. Mrs Adams (*Director*).

ENGLISH LANGUAGE & LITERATURE

- 201a *Practical Criticism*. Discussion of the terms and methods of literary criticism, with exercises in its practice. M 11, T 11-12:50; T 10, W 10-11:50; Th 10, F 10-11:50. Mr Pickrel (*Director*), Mrs von Klemperer, Mr Ellis.
- 201b A repetition of 201a. M 11, T 11-12:50; M 3-4:50, T 3. Mr Pickrel (*Director*), Mr Youngren.
- 207 *The Development of English Literature*. A study of its traditions, conventions, and themes. The course is conducted by lecture and tutorial instruction. M T W 10, W 11 and T 4-5:50 at the option of the instructor. Mr Harward, Mr Skulsky, first semester; Mrs von Klemperer, Mr Sonn, second semester. Mrs von Klemperer (*Director*).
- [208 *The Development of American Literature to 1900*. Th 11-12:50, F 12.]
- [209a, b *English Literature of the Nineteenth and Twentieth Centuries*.]
- [210a *The English Language*. Main historical developments of language, style, and meter, from the beginning to 1400, illustrated by representative readings from each period.]
- [210b *The English Language*. Continuation of 210a from 1400 to the present. Recommended background 210a, 214a or b.]
- 211a *Old English*. A survey of language and literature before 1066, with reading of prose and poetry, both in the original and in translation. W Th 1:40-2:50. Mrs Schroeder.
- 211b *Old English*. A study of Beowulf. Prerequisite: 211a. W Th 1:40-2:50. Mrs Schroeder.
- 214a *Chaucer*. A study of his art and of his social and literary background. Emphasis on the *Canterbury Tales*. M T W 12, T 11 at the option of the instructor; Th 10, F 10-11:50. Mr Harward, Mrs Schroeder.
- 214b *Chaucer*. A repetition of 214a. M T W 12, T 11 at the option of the instructor; Th 10, F 10-11:50. Mr Harward, Mrs Schroeder.
- 215b *Medieval Literature*. A study of Chaucer's *Troilus and Criseyde* and of his minor poems; selected reading from other works of the period, including epics and courtly romances. Prerequisite: 214a or b. M T W 2. Mr Harward.
- 217b *Sixteenth-Century Literature*. Prose and poetry from Wyatt through Shakespeare; a study of ideas and forms characteristic of the Renaissance. M T 11-12:30. Mr Skulsky.

ENGLISH LANGUAGE & LITERATURE

- 218a *Shakespeare*. Romeo and Juliet, As You Like It, Richard II, Henry IV Parts 1 and 2, Henry V, Hamlet, Othello. *Not* open to students who have taken 25b (Spring, 1965). M T W 9, 10; M T W 2. Mr Hill (*Director*).
- 218b *Shakespeare*. Measure for Measure, King Lear, Macbeth, Troilus and Cressida, Coriolanus, Anthony and Cleopatra, The Winter's Tale, The Tempest. M T W 10, 2; W Th F 2. Mr Skulsky (*Director*).
- 220a *Milton*. The major and minor poems with attention to current problems in interpretation and criticism. Th 10, F 10-11:50. Miss Lincoln.
- 221b *Seventeenth-Century Poetry from Donne to Dryden*. Discussion of the Petrarchan convention, metaphysical imagery, Platonism, Christian-Humanism, and related topics. Th 10, F 10-11:50. Miss Lincoln.
- [222b *Restoration and Eighteenth-Century Drama, 1660-1800*. A close study of the backgrounds, modes of production, and texts of significant plays.]
- 223a *The Augustan Age*. Discussion of the major figures: Dryden, Swift, Pope; required paper on Defoe, Addison, or Gay. Recommended background: 220a. Th 3-4:50, F 3-3:50. Mr Ellis.
- 223b *The Age of Johnson*. Discussion of the major figures: Johnson, Goldsmith, and Boswell; required paper on one lesser figure. M T W 12. Mr Youngren.
- 224a *The English Novel*. Defoe to Jane Austen. Th F 1:40-2:50. Mr Pickrel.
- 224b *The English Novel*. Dickens to E. M. Forster. Th F 1:40-2:50. Mr Pickrel.
- 227a *The Romantic Poets*. Discussion of Wordsworth, Coleridge, Blake, and Keats; independent reading of Shelley or Byron. M T W 2. Miss Shook.
- 227b *Victorian Prose and Poetry*. Theme and technique in the prose of Carlyle, Mill, Newman, Arnold, and Ruskin, and the poetry of Tennyson, Browning, Arnold, the Rossettis, Swinburne, and Hopkins. M T W 12. Mrs von Klemperer.
- 230b *Yeats and Joyce*. Open only to juniors and seniors, or by permission of the instructor. M T W 3-3:50. Mr Connelly.
- 231a *Modern Poetry*. Characteristic themes, imagery, and forms of modern British and American poetry. T 10, W 10-11:50. Mr Murphy.
- 234a *Transcendentalism in American Literature*. Emerson, Thoreau, and Whitman. M 3-4:50, T 3. Mr Murphy.

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- 234b *Hawthorne, Poe, and Melville.* Th 11-12:50, F 12. Mr Cavitch.
- 235a *American Literature from the Civil War to the End of the Nineteenth Century.* M T W 9. Mr Aaron, Mr Allen.
- 235b *American Literature from the Beginning of the Twentieth Century to the Present.* M T W 9. Mr Aaron, Mr Allen.
- 240b *Tragedy.* Tragic forms, themes; and theories. Th 10, F 10-11:50, S 10 at the option of the instructor. Mr Petersson.
- 241a *Idea and Form in Twentieth-Century Fiction.* Open only to juniors and seniors, or by permission of the instructor. M T W 3-3:50. Mr Connelly.
- 242a *The Criticism of Poetry.* Critical issues in the works of various major poets from Spenser to Hopkins. Open to juniors and seniors, or by permission of the chairman. M T W 12, T 11 at the option of the instructor. Mr Ricks.
- 301, 301a, 301b *Special Studies.* Independent study normally for senior majors. By permission of the instructor and the Department chairman.
- 302a, b *The Teaching of English.* A course for prospective teachers of English in secondary schools. The teaching of composition and literature. Selection and presentation of material. Demonstration and practice. By permission of the instructor. M T W 2. Mrs Bramwell.

Undergraduate Seminars

Not open to freshmen and sophomores.

- 310a *Medieval English Drama and Poetry.* A study of origins, themes, and literary forms. Recommended background: 214a or b. M 7:30. Mrs Schroeder.
- 311b *Spenser and Jonson.* Studies of selected works as representative of dominant and divergent tendencies of English Renaissance literature. T 4. Mr Skulsky.
- 313a *English Drama from 1560 to 1642.* Shakespeare's predecessors and contemporaries. M 7:30. Mr Skulsky.
- 314b *Seventeenth-Century Studies.* Baroque and Classical: questions of style and form in literature and other arts. Recommended background: 220a or 221b. T 4. Mr Petersson.

ENGLISH LANGUAGE & LITERATURE

- 316a *Satire*. Major satire in prose, verse, and drama, with emphasis on selected writers of the Augustan era. W 7:30. Mr Youngren.
- 317b *Eighteenth-Century Poetry*. Diction, structure, and the imagery of mind and nature in Pope, Thomson, Wordsworth, and others; the relation of such writers as Bacon, Hobbes, and Locke to the poetry of the period. W 7:30. Mr Sonn.
- [318a *Preromanticism*. Romantic tendencies in the eighteenth century: sentiment and sensibility; the rediscovery of nature; primitivism and progress; varieties of liberalism; represented in the works of such writers as Steele, Thomson, Gray, Collins, Sterne, Cowper, Burns, Blake, and Paine. Recommended background: 223b. Mr Ellis.]
- [320b *Nineteenth-Century Studies*. The literature of social criticism, with emphasis on non-fictional prose.]
- [322b *James Joyce*. An intensive study of *Ulysses*.]
- [325a *American Poetry from the Seventeenth Century to the Present*. Critical and historical interpretation of the poetry of Taylor, Emerson, Whitman, Dickinson, Melville, Poe, Robinson, and Frost.]
- [326a *Themes in Nineteenth-Century American Literature*.]
- 327a *Themes in Twentieth-Century American Literature: The Idea of American Epic* in Whitman, Hart Crane, and W. C. Williams. W 7:30. Mr Cavitch.
- 328a *The Nineteen-Thirties in America: Studies in Fiction, Poetry, Drama, Criticism, and Reportage*. M 7:30. Mr Aaron.
- [329b *A Major British or American Poet*.]
- 330a *Henry James*. Selected novels, stories, and criticism. M 7:30. Mrs von Klemperer.
- 331b *Virginia Woolf and E. M. Forster*. A reading of their fiction, including such works as *To the Lighthouse*, *The Waves*, and *A Passage to India*, with some attention to the novelists' critical writings and the aesthetics of Bloomsbury. Recommended background: at least one course in fiction. M 7:30. Mrs Wilson.
- [332b *Ballad*. The ballad as an art form: its types, origins, intrinsic values, literary adaptations, and discography. Mr Ellis.]

ENGLISH LANGUAGE & LITERATURE

- 334b *The Heroic and Pastoral Traditions*. Classical, religious, philosophical, and political adaptations of the conventions, and their development to the present day in poetry, drama, and fiction. T 4. Miss Lincoln.
- [335a *Literary Criticism from Plato to Dryden*. A study of the basic and recurrent problems of literary theory and practice, as formulated in classical, medieval, and Renaissance contexts. Mr Young.]
- [335b *Modern Literary Criticism*. The mimetic, expressive, and objective theories of modern critics, with emphasis on Coleridge, I. A. Richards, and T. S. Eliot. Miss Randall.]
- 336b *The Comic*. Theories of humor; comedy of situation, character, language; great comic figures. Readings in comic verse, prose, and drama, drawn primarily from English literature. M 7:30. Mrs von Klemperer.
- 338b *Religious Poetry*. English devotional poems with particular emphasis on Herbert, Donne, Hopkins, and Eliot. Th 7:30. Mrs Bramwell.

Graduate Seminars

- [406b *Shakespeare*.]
- [411b *Advanced Studies in English or American Literature*. Open by permission to senior majors with appropriate prerequisites.]

B. Courses in Writing

Only one course in English composition may be taken in any one semester except by permission of the chairman. Second semester courses are open to students who have not taken the corresponding course in the first semester as well as to those who have done so.

- 260a, 260b *The Writing of Poetry*. By permission of the instructor. M 7:30. Mr Banerjee.
- 261a [261b] *The Writing of Fiction*. By permission of the instructor. W 7:30. Mr Pickrel.
- [360a, 360b *Seminar in Poetry Writing*.]
- [361a] 361b *Seminar in Fiction Writing*. W 7:30. Mr Williams.
- [362a *Seminar in Essay Writing*.]

ENGLISH LANGUAGE & LITERATURE

THE MAJOR

Advisers: Mr Petersson, Mr Connelly, Mr Pickrel, Mr Murphy, Mrs von Klemperer, Mr Skulsky, Mr Cavitch, Mr Sonn, Mrs Wilson, Mr Hindmarsh.

Basis: two semester courses *or* one year course chosen from the following: 114a, 114b, 115a, 115b, 116a, 116b, 207, General Literature 291.

Requirements: Ten semester courses (or the equivalent), including the following: 214a or b and 218a or b, six additional semester courses in English above the introductory level, and two semester courses above the introductory level, in English or other literatures. One semester course in writing may be counted within the minimum requirements for the major. The Department strongly recommends that students in the major elect at least one seminar a year.

Two Examinations: Each student is expected to pass two examinations, one in an historical field, the other on a literary topic. The two examinations may be taken in either order. They may not, however, be taken in the same semester, and the second may not be taken later than the middle of the senior year.

Field Examinations. Two semester courses and independent reading should in each case provide adequate preparation.

- A. Medieval Literature to 1500 (excluding the material of the required course in Chaucer).
- B. Renaissance and Seventeenth Century, 1500-1674 (excluding the materials of both courses in Shakespeare).
- C. Restoration and Eighteenth Century, 1660-1800 (excluding Milton).
- D. Nineteenth and Twentieth Centuries (including American literature).

Topical Examinations. The scope of each examination will be defined by a list of literary texts and critical works.

- A. A selected topic (e.g., Allegory, The Heroic) in Poetry and Drama mainly before 1700. (To be taken by students electing Field Examination C or D)
- B. A selected topic (e.g., Varieties of Realistic Narrative, The Autobiographical Mode) in Poetry and Prose Fiction mainly since 1700. (To be taken by students electing Field Examination A or B)

HONORS

Directors: For the Class of 1968, Miss Lincoln; for the Classes of 1969 and 1970, Mrs Adams.

Basis: Same as that for the major.

ENGLISH LANGUAGE & LITERATURE

Requirements: Students in Honors must fulfill the general requirements of the major. They must take at least one unit in each semester of the junior year, and at least one unit in the senior year. In the first semester of the senior year, they will present a long paper to count for one semester course beyond the ten courses in English required for the major.

Three Examinations: The first is one of the field examinations in an historical period, which may not be taken later than the middle of the senior year. The second is on major figures. The third, a general examination, will also include critical analyses of texts.

Units

First semester

Shakespeare. (*Double credit*) Th 7:30. Mr Hill.

Milton. To be taken after or concurrently with 220a. T 4. Miss Lincoln.

The Augustans. To be taken after or concurrently with 223a. T 4. Mr Connelly.

The Romantic Poets. (*Double credit*) Th 7:30. Mrs Adams, Miss Shook.

Second semester

Major English Novels. W 7:30. Mr Pickrel.

Blake. Th 4. Miss Shook.

Modern Literature. To be taken after or concurrently with 230b. T 4. Mr Connelly.

American Literature. (*Double credit*) M 7:30. Mr Allen.

FRENCH LANGUAGE & LITERATURE

PROFESSORS:	JEAN COLLIGNON, AGRÉGÉ DE L'UNIVERSITÉ JEAN LAMBERT, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURE
ASSOCIATE PROFESSORS:	ANNE GASOOL, A.M. JOSEPHINE LOUISE OTT, PH.D., <i>Chairman</i> §ANDRÉE DEMAY, AGRÉGÉE DE L'UNIVERSITÉ
ASSISTANT PROFESSORS:	†MARIE-ROSE CARRE, DOCTEUR DE L'UNIVERSITÉ DE PARIS PATRICIA WEED, PH.D. MARIE-JOSÉ MADELEINE DELAGE, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES *JUDITH ADAMS HINDS, PH.D. BLANDINE McLAUGHLIN, DOCTEUR DE L'UNIVERSITÉ DE PARIS
INSTRUCTORS:	MARJORIE ANN FITZPATRICK, A.M. LOUIS EUGENE AULD, M.A. MICHELINE FORT HARRIS, LIC. ÈS L., C.A.P.E.S. LAWRENCE ALEXANDER JOSEPH, A.M. RICHARD ALAN SMERNOFF, M.A. †JACQUELINE MORTON, A.M. OLGA LEHOVICH, A.M. MADELEINE J. M. PAULIAN, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES
LECTURERS:	JOHN BUTEAU, A.M. **LUCILE MARTINEAU, A.M., M.S.W. ²HENRI THOMAS

All classes and examinations in the Department except 312a are conducted in French.

Qualified students may apply for residence in Dawes House, *La Maison Française*.

Students planning to spend their junior year in Paris as French majors are advised to take French 226 or 227 before their junior year. Students planning to spend their junior year in Paris are urged to take History 102 before their junior year.

In sectioned courses, the principal times of meeting are indicated but the instructor may elect to use additional hours in a time block.

A. Language

- 111D *Accelerated Beginning Course.* Not open to students presenting entrance units in French except by permission of the Director. (*Three semesters' credit.*)
Lec. Th 5; sect. M T W Th F 10, 2. Miss Weed (*Director*).

FRENCH LANGUAGE & LITERATURE

- 112 *Intensive Elementary Course.* Prerequisite; two entrance units in French. Lec. Th 5; sect. M T W 9, Th F S 9, 10. Members of the Department.
- 113 *Reading, Grammar, and Composition.* Prerequisite: three entrance units in French or 112. Lec. Th 5; sect. M T W 10; M T 11, W 12; Th F S 9; Th F S 10. Members of the Department.
- 222a, 222b *Composition and Grammatical Analysis.* Study of modern French authors from the point of view of language. Prerequisite: four entrance units in French, 113 or 116. Prerequisite for 222b: 222a or permission of the chairman. M T W 9, 10; M T 11 and, at the option of the instructor, T or W 12; M T W 2; Th F S 9; Th F S 10. Members of the Department.
- 223b *Composition and Grammatical Analysis.* A repetition of 222a. Prerequisite: four entrance units in French, 113, or 116. M T W 10.
- [224a *Theoretical and Practical Phonetics.* Exercises in hearing, pronunciation, and phonetic dictation. Two class hours. *One-quarter course credit.*]
- 310a *The Teaching of French.* Problems and methods of modern language teaching in the elementary and secondary schools. Practice teaching at these levels in the Northampton schools. By permission of the instructor. W 7:30. Mr Buteau.
- 310b A continuation of 310a. Prerequisite: 310a, or permission of the instructor. W 7:30. Mr Buteau.
- 331a, 331b *Course in Composition.* Prerequisite: 222a and b, or permission of the instructor. Prerequisite for 331b: 331a. M T W 12. Miss Gasool.
- [333b *Discussion and Debate.* Limited to twelve students. By permission of the instructor. Open to sophomores. Two class hours. *One-quarter course credit.* Th 4:-5:50.]

B. Literature

Unless otherwise stated the prerequisite for advanced courses is 226.

- 116 *Introduction to French Literature.* The study of representative texts, as an introduction to literary analysis. Prerequisite: three entrance units in French, 111b, or 112. Lec. Th 5; sect. M T W 9, 10; W Th F 2; Th S 11, F 12. Members of the Department.

FRENCH LANGUAGE & LITERATURE

- 226 *Masterpieces of French Literature of the Seventeenth Century.* Representative authors and literary movements of the seventeenth century. Prose, poetry, theatre. Prerequisite: four entrance units in French, 113, 116, or by permission. M T W 9, 10; M T 11 and, at the option of the instructor, T or W 12; M T W 12, 2, 3; Th F S 9, 10; W Th F 2. Members of the Department.
- 227 *Masterpieces of French Literature of the Seventeenth Century.* A program similar to that of 226. For a limited number of students with a superior preparation in French. Prerequisite: four entrance units in French, 113, 116, or permission of the instructor. M T W 9, 12. Miss Delage.
- 301a, 301b Special Studies in language or literature. By permission of the Department for senior majors who have had four semester courses above the introductory level in French.
- 304a *Modern France.* Social and cultural trends. M T W 2. Mrs Martineau.
- [308b *Life and Works of Molière.*]
- 311a *Preromanticism and Romanticism.* M T W 10, 3. Miss Ott, Mr Lambert.
- 311b *French Novel of the Nineteenth Century.* Prerequisite: 311a, or permission of the instructor. M T W 10, 3. Miss Ott, Mr Lambert.
- [312a *French-Canadian Civilization from 1763 to the Present.* Conducted in English. Recommended background, a reading knowledge of French.]
- 313b *French Poetry of the Second Half of the Nineteenth Century.* Baudelaire, Verlaine, Rimbaud, Mallarmé. Prerequisite: 311a, or permission of the instructor. Th F S 10. Mr Thomas.
- 314a *French Literature of the Eighteenth Century.* The novel and the theatre. M T W 9. Mr Collignon.
- 314b *French Literature of the Eighteenth Century.* The Enlightenment and the "Philosophes." M T W 9. Mr Collignon.
- 315a *French Literature of the Middle Ages.* M T W 10. Miss Delage.
- 316b *French Literature of the Renaissance.* M T W 2. Miss Delage.
- [318a *Contemporary French Drama.* Prerequisite: 311a and b.]
- 318b *Contemporary French Novel.* Prerequisite: 311a and b. M T W 10. Mr Lambert.

FRENCH LANGUAGE & LITERATURE

- 335a *French Classicism, 1660-1700.* For 1967-68: Racine and La Fontaine. For senior majors, or by permission of the instructor. M T W 2. Miss Weed.
- 340b *Directed Readings for Coordination and Review.* This course prepares majors in the Department for the general examination. T 4-5:50.
- 346b *Modern French Poetry.* For seniors by permission of the instructor. Th S 11, F 12. Mr Thomas.

C. Seminars

- 342b *Seminar in Stylistics.* Compositions, translations from the English, analyses of various oral and written French styles. Prerequisite: 331a. M 3-4:50. Mr Lambert.
- [345a, 345b *Modern French Thought.* A study of the main currents of French thought from the Renaissance to the present.]
- 347a *Studies in Eighteenth-Century Literature.* For 1967-68: Rousseau. M 3-4:50. Mr Collignon.
- 348b *Studies in Nineteenth-Century Literature.*
- 349a *Studies in Twentieth-Century French Literature.* For 1967-68: Gide. T 4-5:50. Mr Lambert.

D. Graduate

Adviser: Mrs McLaughlin.

- 450, 450a, 450b Research and Thesis. *May be taken for double credit.*
- 451, 451a, 451b Advanced studies arranged in consultation with the Department.
- [453a *Corneille.*]
- [455b *The Evolution of the Idea of Progress and Its Consequences in Literature: "La Querelle des Anciens et des Modernes."* T 4-5:50.]
- [456b *Surrealism (seminar).* M 3-4:50.]

THE MAJOR

For the Class of 1968, Miss Delage; for the Class of 1969, Miss Ott; for the Class of 1970, Miss Weed.

Based on 226; 222a and b are strongly recommended as an additional basis.

FRENCH LANGUAGE & LITERATURE

Requirements: Ten semester courses, including the following: 311a, b; 331a, 331b or, by permission of the instructor, 342b; three other semester courses of advanced level; two semester courses in European history, preferably French, of intermediate or advanced level; and 340b. (Majors spending their junior year in Paris will normally meet certain of these requirements during that year. A course equivalent to 331a and 331b is offered every year in Paris, as is one replacing 311a and 311b. Intermediate or advanced courses in history are also available.) Majors are strongly advised to take, in addition, two semester courses in Latin (especially if no entrance units in the language are presented); and two semesters in the literature of another modern language.

Two examinations: One in one of the fields listed below, and a general examination based on at least two periods of French literature (other than that of the student's field, if her field examination is in a period rather than a genre). The general examination is composed of an oral "explication de texte" (20 minutes, plus time for preparation), and a written examination.

Fields: The Middle Ages and the Sixteenth Century
The Seventeenth Century
1700-1848
1848 to the present
The Novel
Poetry
The Theatre

HONORS

Director: Mr Collignon.

Requirements: Those of the major, including at least one seminar; a thesis written in the first semester, normally equivalent to one semester course.

Three examinations: a general examination in French literature; an examination in one of the fields of the major; a language examination composed of (a) translation from English into French, translation from French into English, and (b) an oral "explication de texte" (20 minutes, plus time for preparation).

GEOLOGY & GEOGRAPHY

PROFESSOR:	CAROLINE HEMINWAY KIERSTEAD, PH.D., <i>Acting Chairman</i>
ASSOCIATE PROFESSOR:	†MARSHALL SCHALK, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	H. ROBERT BURGER III, PH.D.
INSTRUCTOR:	¹ ANN M. BURGER, A.M.
LECTURER:	RICHARD KARL BAMBACH, M.S.

Courses which may be used to fulfill the science requirement are 111a or b, 112b, or any two laboratory courses for which the student has the prerequisites.

Special placement in geology courses is possible for students who pass a qualifying examination given by the Department of Geology or have received grades of 4 or 5 on the Advanced Placement examination.

Course descriptions include the letter of the field or fields in which a course falls if it is acceptable for concentration in a departmental field.

- 111a *Physical Geology*. Modern concepts of the origin and evolution of continents, ocean basins, island arcs, mountains and landforms; topics include earthquakes, continental drift, and the sculpturing of the land surface. Three hours of lecture, one three-hour laboratory. Lec. M T W 9; lab. M T Th F 2, Th 10, F 9; field trips. Mr Burger and members of the Department.
- 111b A repetition of 111a. Three hours of lecture, one three-hour laboratory; field trips. Lec. M T W 10; lab. M 2. Mrs Burger.
- 112b *Historical Geology*. Interpretation of earth history and the evolution of life as deduced from the record of rocks and fossils in the earth's crust. Field trips. Three lectures and one three-hour laboratory. Prerequisite: 111a or 111b. Lec. M T W 9; lab. M T Th F 2. Mr Bambach and members of the Department.
- 221a *Mineralogy*. Elementary crystallography; the chemistry of minerals; optical mineralogy; and the description and identification of the more important minerals. Prerequisite: 111a or 111b, or entrance units in Chemistry, or Chemistry 111a. Lec. M T 11-11:50, W 12; lab. M 2-4: 50. Mr Burger. (A)
- 231a *Introductory Paleontology and Paleoecology*. A study of the more common groups of larger invertebrates, their paleoecology and stratigraphic importance. Prerequisite: 112b; open without this prerequisite to Zoology majors by permission of the instructor. Lec. Th 11-12:50, F 12; lab. Th 2-4:50. Mrs Kierstead. (B)

GEOLOGY & GEOGRAPHY

- [241a *Principles of Cartographic Drafting, Editing, Reproduction.*]
- [242b *Geologic and Geographic Illustration.*]
- [251a *Introductory Meteorology.* The weather elements; their observation; air mass analysis; short-term and aeronautical forecasting; climatology. Two lectures and one demonstration. Mr Schalk. (G)]
- [252b *Geography of North America.* Regional characteristics of North America exclusive of Mexico. Mrs Kierstead. (G)]
- 301a, b *Advanced Work or Special Problems in Geology or Geography.* By permission of the Department. Members of the Department. (A, B, C)
- 321b *Petrology.* Identification, description, and classification of igneous and metamorphic rocks by field and microscopic methods; mineralogical and chemical classification systems; and petrogenesis of rock associations. Prerequisite: 221a. Lec. M T 11-11:50, W 12; lab. M 2-4:50. Mr Burger. (A)
- [324a, b *Economic Geology.* (A, G)]
- [325b *Geology of Petroleum and Natural Gas.* Their origin, occurrence, and distribution; application of geological principles to their finding and exploitation. Prerequisite: 112b (332a and 341b recommended). Open to sophomores by permission of the Department. Three hours of lecture. Mr Schalk. (A, G)]
- 331b *Paleontology and Paleogeology.* A continuation of 231a with emphasis on fossil groups not covered in 231a; special problems; field trip of two or more days. Prerequisite: 231a. Open to sophomores. Lec. Th 11-12:50, F 12; lab. Th 2-4:50. Mrs Kierstead. (B)
- 332a *Stratigraphy and Sedimentation.* Formation and interpretation of sedimentary rocks; stratigraphic principles and their application. Prerequisite: 112b and 321b. Lec. M T W 10; lab. T 2-4. Mr Bambach. (B)
- 334a *Evolution of North America.* The geologic framework of North America; a stratigraphic and structural study of selected regions of the continent. Prerequisite: 112b. Open to sophomores. Lec. Th F 10, F 11 at the option of the instructor; lab. W 2-3:50. Mrs Kierstead. (B, C)
- 341b *Structural Geology.* The study and interpretation of rock structures with emphasis on the mechanics of deformation; behavior of rock materials; and methods of analysis. Prerequisite: 112b. Open to juniors and seniors only. Lec. M T W 9; lab. T 2-3:50. Mr Burger. (C)

GEOLOGY & GEOGRAPHY

- [342b *Field Geology*. Methods; theory and use of Brunton, alidade, and other mapping instruments; topographic and geologic surveying; applied structural geology. Open to juniors and seniors only. Prerequisite: 112b (332a and 341b recommended). Offered in alternate years. Lec. Th F 12; lab. Th 2-5:50. Mr Burger.]
- [343a *Land Surfaces of Eastern United States*. (C, G)]
- [343b *Land Surfaces of Western United States*. (C, G)]
- [344a *Geological Oceanography*. The structural, depositional and physiographic features of the ocean floors and continental margins; economic geology of the oceans. Prerequisite: 112b. Open to sophomores by permission of the Department. Th 11-12:50, F 12; two hours of laboratory to be arranged. Mr Schalk. (B, C, G)]
- [351a *Geography of Asia*. Emphasis on Southeast Asia. Influence of relief, climate, and natural resources on the life, movements and history of its peoples. Open to sophomores. (G)]
- [352b *Geography of Europe and North Africa*. (G)]
- [353a *Latin America*. Geography of Latin America. (G)]
- 371a, b Honors project. By permission of the Department. Members of the Department. (A, B, C)

THE MAJORS

GEOLOGY

Advisers: Mrs Kierstead, Mr Schalk, Mr Burger.

Fields: A. Mineralogy and related courses.

B. Paleontology and related courses.

C. Physiography, Structural Geology, and related courses.

G. Geography.

Basis: 111a (or 111b) and 112b.

Requirements: Eight semester courses, including the following: 221a, 231a, 321b, 332a, 341b, 342b (331b and/or 334a are strongly recommended but not required), and two additional courses in geology, or related sciences. Students are advised to take Chemistry 111a and Mathematics 103a in college unless the equivalent has been offered for admission. Zoology 100a and 131b are recommended for majors concentrating in paleontology. Majors who plan to go on to graduate school and concentrate in the fields of Structural Geology or Petrology are advised to take Physics 111a or 115 in college.

GEOLOGY & GEOGRAPHY

Two examinations: an examination chosen from Fields A, B or C (based on at least two courses at the advanced level or higher in the field chosen; courses that fulfill this requirement are designated A, B and/or C); and an examination in general geology.

GEOGRAPHY

Students who are interested in a Geography major should see Mrs Kierstead.

GRADUATE

401a, b *Advanced Work or Special Problems in Geology*. By permission of the Department. Members of the Department. (A, B, C)

[421a *Optical Mineralogy*. Prerequisite: 321b. (A)]

431a, 431b *Micropaleontology*. A study of foraminifera and other microfossils, their use, identification, ecology and paleoecology. By permission of the instructor. Two hours of lecture, four hours of laboratory. Mrs Kierstead. (B)

441b *Rock Mechanics*. Advanced topics in rock mechanics and structural geology: Airey stress function, photoelasticity, Mohr diagram analysis of stress and strain, dynamic structural analysis, and experimental deformation. Prerequisites: 341b, Mathematics 103a or b and 104a or b, or permission of the instructor. Three hours of lecture, three hours of laboratory. Mr. Burger. (C)

471a, b Research and thesis in geology. Members of the Department. (A, B, C)

HONORS IN GEOLOGY

Director: Mrs Kierstead.

Basis: 111a (or 111b) and 112b.

Requirements: Eight semester courses as in the major; and an honors project equivalent to one or two semester courses, begun not later than the first semester of the senior year.

Three examinations: Two will be identical with those required of majors, but a minimum grade of B in each is required. A third, an oral examination, on the honors project, will be approximately one hour in length.

GRADUATE WORK IN GEOLOGY

Adviser: Mrs Kierstead.

GERMAN LANGUAGE & LITERATURE

PROFESSOR:	MARIE SCHNIEDERS, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	§WILLY SCHUMANN, PH.D.
INSTRUCTORS:	YVONNE ELIZABETH LOSCH, A.B. JUDITH LYNDAL RYAN, B.A. HANS RUDOLF VAGET, M.A.
ASSISTANTS:	VIVIAN M. HARROWER, M.A.T. SUSANNE MARIANNE NAEGELE
LECTURER:	RONALD HINDMARSH, B.A.

Students who enter Smith with previous preparation in German will be assigned, on the basis of a placement examination, to the appropriate courses.

Students who plan to major in German or wish to spend the junior year in Germany should take German in the first two years. A course in European history and a course in philosophy are also recommended.

A. German Language

- 111 *Elementary Course.* Five class hours. M-F 9, 10, 2, 3. (A special section for those seniors who wish greater emphasis on reading ability will be given M T W 12.) Members of the Department. Miss Schnieders (*Director*).
- 111D *Elementary Course.* Seven class hours. M T W Th F 10 and two hours to be arranged. (*Three semesters' credit*) Miss Losch.
- 112 *Intermediate Course.* Prerequisite: two entrance units; or German 111. M T W 10, 3; Th F 12, S 11. Lec. Th 5. Members of the Department. Miss Losch (*Director*).
- 221a, 221b *Composition and Conversation.* Prerequisite: three entrance units or 111D, 112. M T W 12. Mr Vaget.

B. German Literature

The prerequisite for advanced courses is an intermediate course or the equivalent.

- 225a, 225b *Readings in German Literature.* Representative works (narrative, dramatic, lyric) from the Romantic period to Brecht. Prerequisite: three entrance units or 111D, 112, or permission of the instructor. Th 10, F 10-11:50. Miss Schnieders.

GERMAN LANGUAGE & LITERATURE

- [226a, 226b *An Introduction to the Classical Literature of the Eighteenth Century*. Selections from the works of Lessing, Goethe, and Schiller. Prerequisite: three entrance units or 111D, 112, or the equivalent. M T W 10.]
- 332a *German Literature from the Earliest Times to 1250*. Nibelungenlied, the courtly epic, Minnesang. M 7:30. Miss Schnieders.
- [332b *German Literature from 1250 to 1750*. Humanism, the Reformation, the Baroque, and the Enlightenment. Miss Schnieders.]
- 333a *The Age of Goethe (1750-1830)*. Storm and Stress, and the Classical Period. Mr Vaget.
- 334b *Modern German Literature*. Nietzsche, Rilke, Thomas Mann, Kafka, Brecht, and others.
- 335a *The Age of Goethe (1750-1830)*. Romanticism. M 4-5:30, T 11-1. Mrs Ryan.
- 335b *Goethe's Faust, Parts I and II*. Mr Vaget.
- 336b *German Literature in the Nineteenth Century*. Realism and Naturalism, from Heine to Hauptmann. Mrs Ryan.
- 341, 341a, 341b Special Studies arranged in consultation with the Department. By permission of the Department for senior majors.
- [442a *Contemporary German Literature*. From 1945 to the present.]

C. German Literature in Translation

- 227a, 227b *Modern German Literature*. Nietzsche, Freud, Rilke, Kafka, Brecht, Musil, Thomas Mann and selected living novelists. W 3-3:50, Th 3-4:50. Mr Hindmarsh.

D. Germanic Philology

- 443b *Introduction to Middle High German*. A study of the language with selected readings, in the original, from the literature of the period. Miss Schnieders.

E. Graduate

Adviser: Miss Schnieders.

- 450, 450a, 450b Research and Thesis. *May be taken for double credit.*
- 451, 451a, 451b Special Studies in the fields of literature and linguistics arranged in consultation with the Department.

GERMAN LANGUAGE & LITERATURE

THE MAJORS

Adviser for German Literature and German Civilization: Miss Schnieders.

GERMAN LITERATURE

Based on 111b or 112.

Requirements: Ten semester courses, including the following: 221a or 221b; two selected from 225a, 225b, 226a, and 226b; as well as 332a, 333a, 333b, 334b, and two other semester courses in the Department above the intermediate level.

Two examinations: An examination in one of the three fields listed below; and an examination on a particular epoch or genre.

Fields: German Literature from the Earliest Times to the Eighteenth Century (800-1750).

German Literature in the Age of Goethe (1750-1830).

German Literature in the Nineteenth and Twentieth Centuries (1830 to the present).

GERMAN CIVILIZATION

Based on 111b or 112, and History 102.

Requirements: Nine semester courses, including the following: 221a or 221b; two selected from 225a, 225b, 226a, and 226b; as well as 333a, 334b, and three related semester courses to be chosen from Government 220a, 261b; History 248a, 255a; Philosophy 124b.

Two examinations: An examination taken in *one* of the fields listed under Plan A; a second, divided into two parts (based on the program of the individual student), consisting of (a) Problems in the Literature of the Age of Goethe, or the Literature of the Twentieth Century; (b) one or more major historical aspects of German Civilization.

HONORS

Director: Miss Schnieders.

Requirements: the courses required for the major; a unit involving the writing of a long paper in the first semester of the senior year.

Three examinations: a departmental field examination; an examination in a specialized field; an examination which may include such topics as problems of analysis, criticism, and translation.

GOVERNMENT

PROFESSORS:	<p>**CECELIA MARIE KENYON, PH.D. §ALAN BURR OVERSTREET, PH.D. †LEO WEINSTEIN, PH.D.</p>
ASSOCIATE PROFESSORS:	<p>*CHARLES LANGNER ROBERTSON, PH.D. STANLEY ROTHMAN, PH.D. MARGARET LOUISE BATES, D.PHIL. PETER NILES ROWE, PH.D., <i>Chairman</i> KAMEL SALEH ABU JABER, PH.D.</p>
ASSISTANT PROFESSORS:	<p>**JAY B. SORENSON, PH.D. PHILIP GREEN, PH.D. THOMAS PAUL JAHNIGE, PH.D. DONALD LEONARD ROBINSON, B.D., PH.D.</p>
TEACHING FELLOW:	<p>G. GREGORY FAHLUND, M.A.</p>
LECTURERS:	<p>JOHN EDWARD BOWLE, M.A. STEPHEN ELKIN, A.M. ²THELMA JEAN GROSSHOLTZ, PH.D. ¹BARBARA TURLINGTON, B.A.</p>

For students who plan to major or to do honors work in the department, appropriate courses in economics, sociology, and history are recommended. See also the honors program.

Advanced courses require the permission of the instructor and ordinarily presume as a prerequisite an intermediate course in the same field.

100 *Introduction to Political Science.* A study of the leading ideas of the Western political tradition and their application to the analysis of contemporary political systems. For freshmen and sophomores only. Two lectures and one discussion. Lec. M T 12; dis. T 2; W 12, 2, 3; Th 9, 11, 12; F 11, 12. Mr Bowle and members of the Department.

A. American Government

200a, b *American Government.* First semester: political culture and ideology. Second semester: major political institutions. *Not* recommended for students planning to take their field examination in American Government. M T W 10. Mr Robinson.

- 201a *American Constitutional Development.* The origins and framing of the Constitution; contemporary interpretations; the study of Supreme Court decisions, documents, and other writings dealing with the interpretation of the Constitution, with emphasis on changing ideas concerning federalism and separation of powers. M T 11-12:30. Mr Jahnige.
- [201b *American Constitutional Law.* Fundamental rights of citizens as interpreted by decisions of the Supreme Court, with emphasis on the interpretation of the Bill of Rights and the Fourteenth Amendment.]
- 202a *American Political Parties.* Their structure, operation, and place in the American system of government. Field study and participation in a political campaign. M T W 2. Mr Robinson.
- [203a *Public Administration.* Political aspects of government regulations, with emphasis on transportation, public utilities, housing, and development of atomic energy.]
- 203b *Administration and Policy Development.* The bureaucracy: administrative officials and the determination of public policy, with emphasis on the problem of securing responsible government through Congressional supervision, judicial review, and Presidential control. M 3-5, T 3-4. Mr Jahnige.
- 204a *City Government and Politics.* Political implications of urbanization, structure and process of municipal government, urban redevelopment and planning. M T W 12. Mr Elkin.
- 205a *Congress and the Legislative Process.* An analysis of the legislative process in the United States, focused on the contemporary role of Congress in its relations with the Presidency, the federal bureaucracy, and pressure groups. M 3-5, T 3-4. Mr Green.
- 205b *The Presidency and Public Policy.* Concepts of political modernization will be used to analyze the development of executive authority and institutions in the United States. The making and nature of public policy in the light of democratic theory. M T W 10. Mr Elkin.
- [300a *Seminar in American Government.*]
- 300b *Seminar in American Government.* Topic for 1967-68: The Judiciary in America. Judicial decision-making and the courts as a focus of government will be emphasized. Mr Jahnige.
- 301a *Seminar in the Politics of Metropolitan Areas.* M 7:30. Mr Elkin.

GOVERNMENT

301b *Seminar in Public Opinion and Pressure Groups.* Mr Green.

302a *Seminar in American Government: Political Power and Political Behavior.* M 7:30.
Mr Green.

302b *Seminar in American Political Parties.* Mr Robinson.

B. Comparative Government

220a is suggested preparation for all courses in this field.

220a *European Government.* The dynamics of political decision-making in England, France, and Germany. Emphasis will be on comparative analysis, but students will have the opportunity to specialize in the country of most interest to them. M T W 9. Mr Rothman.

221a *Government and Politics of the Soviet Union.* The role of Marxism-Leninism in Soviet politics; the role of a Communist Party in Soviet government and society; problems of industrialization; stages of development and political change; the balance of political forces and pressures in Soviet society. M T W 10. Mr Sorenson.

222b *Governments and Politics of the Middle East and North Africa.* The traditional Islamic political system. The transformation of that system into a modern nation-state system under the impact of Westernization, nationalist ideology, and other social and economic forces. The structures and functions of present governments in the area. Internal tensions and conflicts within and the international relations of the region. How the Middle East affects and is affected by the East-West contest for power, with special reference to American foreign policy. Th F 8:40-9:50. Mr Abu Jaber.

[223b *The Commonwealth of Nations.* Its development and organization, and a study of political ideas and institutions in Canada, Australia, New Zealand, India, and newer countries of the Commonwealth; relations with the United States and with international organizations. Miss Bates.]

225a *Africa South of the Sahara.* An introductory study of political, economic, and social factors. Th F S 9. Miss Bates.

[226a *Politics and Government in South Asia.* Theory and practice of political development, primarily in India and Pakistan. Emphasis on the interaction of social structure and political processes and institutions. South Asian regional politics and the role of the Western and Soviet powers in the area. M T W 2. Mr Rowe.]

- 227b *Political Systems of Southeast Asia.* A study of the political systems of Malaysia, Thailand, the Philippines, and other countries of Southeast Asia, with special emphasis on political cultures, ideas, and attitudes. M 3-4:50, W 3-3:50. Miss Grossholtz.
- 320b *Seminar in Comparative Government.* Topic for 1967-68: Revolution, Political Development and Political Decay. Mr Rothman.
- 321b *Seminar in Latin American Political Systems.* A comparative analysis of Latin American political systems. Emphasis of the course will be on the relationship between social and political variables, and the processes of political decision-making. Argentina, Brazil, and Mexico will receive major attention, but students will have the opportunity to specialize in the country of most interest to them. Mr Rothman.
- [322b *Seminar in Comparative Government: Soviet Politics in the Post-Stalin Era.*]
- 323a *Seminar in Comparative African Governments: South, Central, and East Africa.* Prerequisite: a course on Africa. Miss Bates.
- 323b *Seminar in Comparative African Governments: West Africa.* Prerequisite: a course on Africa. T 4. Miss Bates.
- [324b *Seminar in Comparative Government: Political Life in Contemporary India.* Alternates with 340b. M 3. Mr Rowe.]

C. International Relations

240a is suggested preparation for all courses in this field.

- 240a *International Politics.* The context, practices, and problems of international politics. Th F 1:40-3. Miss Turlington.
- 240b *International Organization.* The role and function of international organizations, both universal and regional, in international relations. Th F S 10-10:50. Mr Robertson.
- 241a *International Law.* The function of law in the international community, with special reference to the relation of law, politics, and social change. Th F S 8:40-9:50. Mr Abu Jaber.
- 242a *Foreign Policy of the United States since 1898.* The growth of principles and practices of diplomacy from the emergence of the United States as a great power to the present. Concepts and themes developed under six presidents. M T W 9. Mr Rowe.

GOVERNMENT

- [242b *Foreign Policy of the United States*. Concepts for analysis of internal and external factors in the making of foreign policy decisions and for control over the instruments of policy. Evaluation of the role of the United States in the international political system. M T W 9. Mr Rowe.]
- 340a *Seminar in International Politics*. Topic for 1967-68: Contemporary Theories and Research in International Politics. M 3-5. Mr Rowe.
- 340b *Seminar in International Politics*. Topic for 1967-68: Statemanship and Moral Choice. Close examination of decisions made by Wilson, Chamberlain, F. D. Roosevelt, Nehru, Kennedy, and Johnson. Alternates with 324b. T 4-6. Mr Rowe.
- 341a *Seminar in International Politics*. Topic for 1967-68: Ideological Trends and Social Movements in the Middle East. Th 3-4:50. Mr Abu Jaber.

D. Political Theory

- 260a *Ancient and Medieval Political Theory*. Greek, Roman, Judaic-Christian, and barbarian foundations of the Western political tradition. The approach to the material will be both historical and analytical. Th 11-12:50, F 12-12:50, S 11-11:50 at the option of the instructor. Miss Kenyon.
- 261a *History of Political Theory, 1500-1800*. An analytical and critical consideration of major theorists and concepts from Machiavelli through Burke, including such topics as political power and political right; the political implications of religio-ethical diversity; the principle and the problems of popular sovereignty; the philosophical justification of liberty and equality; revolutionary republicanism, conservatism, and the question of man's capacity to create and control political systems. Th F 3-4:50. Miss Kenyon.
- 261b *Political Theory of the Nineteenth and Twentieth Centuries*. Hegel, Marx, Lenin, Hitler, Weber, Dewey, Freud, and others who have contributed to the development of political thought and social movements in the nineteenth and twentieth centuries will be subjected to systematic examination. M T W 12. Mr Bowle.
- [262b *American Political Thought*. The evolution of the principles and practice of liberal democracy. American ideas concerning politics and government from the colonial period to the present. Th F S 10-10:50, F 11-11:50 at the option of the instructor. Miss Kenyon.]
- 263b *Political Analysis*. An intensive consideration of issues in the method and philosophy of political science, such as the fact-value problem, the place of

ideology in political science, and the use of scientific methods to study politics.
M 3-5, T 3-4. Mr Green.

360b *Seminar in Contemporary Political Thought.* Mr Bowle.

[361a *Seminar in Political Theory.* Topic for 1967-68: Hobbes and His Critics. Mr. Bowle.]

[361b *Seminar in American Political Thought.*]

380a, b Directed reading required of majors in the department. To be taken for one semester only. Mr Green, Director; Mr Rothman, Mr Jahnige.

381, 381a, 381b Special Studies. By permission of the department for senior majors

[HISTORY AND SOCIAL SCIENCE 395b *Interdepartmental Seminar in Economics, Government, History, and Sociology.*]

[400 *Graduate Seminar in American Government.*]

[420 *Graduate Seminar in Comparative Government.*]

[440 *Graduate Seminar in International Relations.*]

[460 *Graduate Seminar in Political Theory.*]

THE MAJOR

Advisers: Mr Rowe, Mr Sorenson, Mr Green, Mr Elkin, Mr Robinson, Mr Rothman, Mr Jahnige, Miss Kenyon.

Based on 100 or, in exceptional circumstances, on an equivalent course approved by the chairman.

Requirements: Nine semester courses, including two of the three following semester courses in Political Theory: 260a, 260b, 261b; one in each of the remaining fields: American Government, Comparative Government, International Relations; 380a or 380b, to be taken in the junior year when the student has had, or is completing, two semester courses beyond the basis of the major; and three additional semester courses (two in Political Theory), or their equivalent, in one of the fields of government listed below, or in a special field: e.g., area studies to be arranged in consultation with the Departmental advisers.

Majors may spend the junior year abroad if they meet the College requirements.

Two examinations: (1) a field examination based on four semester courses, or their equivalent, in one of the four Departmental fields; (2) a comprehensive examina-

GOVERNMENT

tion in the discipline of political science, based on 380a or 380b, in addition to work in the fields of government other than that selected by the student for her field examination.

HONORS

Directors: For the Class of 1968, Mr Rothman; for the Class of 1969, Miss Bates. Based on 100 or, in exceptional circumstances, an advanced course approved by the director.

Requirements: Nine semester courses (including one unit or seminar in both the junior and senior years): the unit in Political Theory, or its equivalent; one course in each of the remaining fields of government: American Government, Comparative Government, International Relations; 380a or 380b, ordinarily to be taken in the junior year, when the student has had, or is completing, two semester courses beyond the basis of the major; three additional semester courses (two in Political Theory), or their equivalent, in one of the fields of government listed, or in a special field: e.g., area studies to be arranged in consultation with the Departmental advisers; and a long paper counting for double semester credit, ordinarily in the first semester of the senior year.

Three examinations: Comprehensive examinations consisting of a written general examination in political science; a written examination in one field of political science; an oral examination based on the thesis and the field in which it is written.

Units

(Open to honors students not majoring in Government and to qualified non-honors Government majors with permission of the instructor.)

Political Theory. An intensive study of selected theorists and themes in political theory. First semester. Miss Kenyon, Mr Bowle.

Comparative Government. This unit will analyze various approaches to the comparative study of politics and discuss such topics as: political culture, social stratification and political power, political socialization and communication, political parties, bureaucracy, revolution. Students will be permitted to concentrate on the application of theory to the study of political systems in which they are most interested. For the year. Mr Rothman.

[*International Relations.* For the year.]

[*American Politics.* For the year.]

HEBREW

See Religion and Biblical Literature, pp. 180-181.

HISPANIC STUDIES

PROFESSORS:	*JUAN BAUTISTA AVALLE-ARCE, PH.D., <i>Chairman,</i> <i>second semester</i>
	**JOAQUINA NAVARRO, PH.D., <i>Chairman, first semester</i>
ASSOCIATE PROFESSOR:	ERNA BERNDT KELLEY, PH.D.
ASSISTANT PROFESSORS:	JOSÉ ORTEGA, PH.D. §ALICE RODRIGUES CLEMENTE, PH.D.
INSTRUCTORS:	CHARLES MANN CUTLER, JR., A.M. HARRIET STEVENS TURNER, M.A. MILAGROS TERESA ORTEGA-COSTA, M.A.
ASSISTANT:	DIANE JANET PAMP, A.B.

The following preparation is recommended for students who intend to take the Spanish or Hispanic-American major: courses in Classics, either in the original or in translation; courses in other European literatures and history; a reading knowledge of another foreign language.

PORTUGUESE

- 120 *Elementary Portuguese.* Prerequisite: two years of Spanish or permission of the instructor. M T W 10. Mr Cutler.
- 220a *Masterpieces of Portuguese Literature.* Prerequisite: 120. M T W 9. Mr Cutler.
- 226b *Masterpieces of Brazilian Literature.* Prerequisite: 120. Hours to be arranged. Mr Cutler.
- [321b *Eça de Queiroz.* The evolution of his novelistic technique and his role as a social critic. Prerequisite: 220a. Hours to be arranged.]
- 326a *The Modern Brazilian Novel.* A study of the development of the Brazilian novel from the appearance of *Os Sertões* to the present, with emphasis on the outstanding writers of the Northeast. Prerequisite: 226b. Hours to be arranged. Mrs Kelley.

SPANISH

- 100D *Elementary Course.* Three semesters' credit. M T W 12-12:50, Th 11-12:50, F 12-12:50. Mrs Kelley, Mrs Turner, Miss Pamp.

HISPANIC STUDIES

- 101 *Elementary Course.* M 3-4:50, T W 3-3:50. Members of the Department.
- 102 *Intermediate Course.* Review of grammar and reading of modern prose. Prerequisite: two entrance units or 101. M T 10-10:50, W 10-11:50; Th F S 9. Members of the Department.
- 103 *Grammar, Composition, and Reading.* Discussion of modern Spanish novels, plays, and poetry. Prerequisite: three entrance units. M T W 9; Th S 10-10:50, F 10-11:50. Members of the Department.
- 200a *Prose Composition.* Prerequisite: 100D, 102, 103. M T W 2-2:50.
- 210b *Translation Course.* For students who need practice in translation for other disciplines. Prerequisite: 100D or its equivalent. M T W 2-2:50.
- 212 *Reading of Modern Novels, Plays, and Poetry.* Prerequisite: four entrance units, or 100D, 102, or 103. M T 11, W 12; Th 11-12:50, F 12-12:50. Members of the Department.
- 215 *Literary Currents in the Hispanic World.* An introduction to literary movements and genres from the Middle Ages to the present. Prerequisite: four entrance units, or 100D, 102, 103. M T 10-10:50; W 10-11:50. Mr Ortega.

The prerequisite for the following Spanish courses is 212 or 215.

- 300a or b *The Teaching of Spanish.* Problems and methods in the teaching of the Spanish language; practice teaching. Hours to be arranged.

THE FORMATIVE PERIOD

- 330b *The Epic Tradition: Poems, Chronicles, and Ballads.* A study of the continuity of Spanish epic themes from the *Cantares de gesta* to the *Romancero*. M 4-5:50, T 4-4:50. Mrs Kelley.
- [331a *The Structure of the Spanish Middle Ages in Literature.* The legacy of the Moorish, Jewish and Christian traditions.]
- 332a *Seminar: El Libro de buen amor and La Celestina.* A study of medieval and pre-Renaissance themes. M 4-5:50. Mrs Kelley.
- [333b *Seminar: Lyric Poetry in the Hispanic World to the End of the Fifteenth Century.* The Peninsular traditions and the poetry of the Troubadours. Mrs Kelley.]

THE IMPERIAL PERIOD

- 340b *Cervantes: The Birth of the Modern Novel.* Th 4-5:50, F 4-4:50. Mr Avalle-Arce.
- 342a *Seminar: Poetic Themes in the Golden Age.* A detailed study of one or two of the seven major poets of the Golden Age: Garcilaso, Herrera, Luis de León, San Juan de la Cruz, Lope de Vega, Góngora, Quevedo. F 10-11:50. Miss Navarro.
- [343a *Lyric Poetry: Renaissance and Baroque.* The development of Spanish lyric poetry from Garcilaso and Boscán to Góngora and his followers. Mr Avalle-Arce.]
- 344a *Ideological Framework of the Imperial Age.* An analysis of the main currents of thought in sixteenth-century Spain, and their influence on life and literature. M T 1:40-2:50. Mrs Kelley.
- [345a *Techniques of the Novel in the Golden Age.* Studies in the prevalent genres: chivalric, sentimental, pastoral, Byzantine, picaresque. Mr Avalle-Arce.]
- [346b *Seminar: Poetry and the Drama: Lope, Calderón.* Intensive analysis of the dramatic technique of one of these two major dramatists. F 10-11:50. Mr Avalle-Arce.]
- [347b *Golden Age Drama: Juan del Encina to Calderón.* The development of the drama, from the latest medieval examples to the *autos sacramentales* of Calderón. Mr Avalle-Arce.]
- 350a *The Literary Life of Colonial Hispanic-America.* The conflict between artistic attitudes and European influences that shaped the character of Hispanic-American letters. Th 11-12:50, F 12-12:50. Miss Navarro.
- [351a *Seminar: Hispanic-American Letters During the Eighteenth Century.* Miss Navarro.]

THE MODERN PERIOD

- 360a *Romanticism and the Revival of the Spanish Past.* Aspects of the re-creation of old legendary and historical material. Th F 8:40-9:50. Miss Navarro.
- [361a *Seminar: Spanish Romanticism in Its European Context.* European romantic currents and Spanish romantic practice; the political emigrations and their influence on Spanish literature. Miss Navarro.]
- 362b *Seminar: The Hispanic and the Universal in the Novels of Galdós.* An analysis of Galdós' complex integration of Spain's history and character with the more intimate conflicts of man. F 10-11:50. Mr Avalle-Arce.

HISPANIC STUDIES

- [363b *Realism in Spain: The Image of the Regions*. Regionalism as an original Spanish contribution to the nineteenth-century novel. Miss Navarro.]
- 364a *Tradition and Dissent: The Generation of '98*. The problem of Spain as seen in the writings of the forty years preceding the Spanish Civil War with special emphasis on the modern essay. M T W 10-10:50. Mr Ortega.
- [365a *New Directions in the Twentieth-Century Novel*. A study of the important novelists of the twentieth century in the light of their formal innovations and their artistic, philosophical and social preoccupations.]
- 366b *The Heritage of Modernism: Twentieth-Century Poetry*. Readings in twentieth-century poetry, accompanied by a study of its trends, schools and movements. M T W 10-10:50. Mr Ortega.
- [367b *Seminar on the New Drama: Themes and Trends*. Contemporary developments in Spanish drama from Benavente to the present.]
- 370b *Seminar: Hispanic-American Society in the Novel*. The novel as a mirror of vital aspects of Hispanic-America. W 2-3:50. Mr Ortega.
- [371b *Currents in Modern Hispanic-American Poetry*. Nineteenth and twentieth century Hispanic-American poetry as a counterpart to 370b. Miss Navarro.]

GRADUATE

Adviser: First semester: Miss Navarro. Second semester: Mr Avalue-Arce.

Students who wish to do graduate work in the Department are expected to have a knowledge of Latin.

- 400 Research and Thesis. (*May be taken for double credit*)
- 402a, 402b *History of the Spanish Language*. Miss Navarro.
- 410a, 410b *Spanish Bibliography and Literary Methods*. Mr Avalue-Arce.
- 440 *Studies in Contemporary Spanish Literature*. A detailed examination of the main currents of Spanish contemporary literature emphasizing stylistic analysis.
- 460 *Studies in the Golden Age*. Traditionalism, Renaissance, Catholic Reformation: artistic and ideological problems, in reference to specific authors, works, and periods.
- 480a, 480b *Advanced Studies in Spanish Literature*. Arranged in consultation with the adviser of graduate study on subjects such as poetry of the Golden Age, Cervantes, Tirso and the Spain of his epoch, nineteenth- and twentieth-century prose.

HISPANIC STUDIES

THE MAJORS

Adviser for Hispanic and Hispanic-American Studies: Mrs Kelley.

Hispanic Studies

Based on 100D or its equivalent.

Requirements: Ten semester courses, including 200a, 212 or 215, and seven courses above the intermediate level.

Two examinations: a field examination, a general examination.

Fields: The Formative Period.

The Imperial Period.

The Modern Period.

Hispanic-American Studies

Two programs are offered:

Program I: for students particularly interested in literature.

Based on Spanish 100D or its equivalent. By special permission, the language requirement may be partially fulfilled with Portuguese.

Required courses: Ten semester courses, including the following: 200a, 212 or 215, five courses to be selected from 344a, 350a, 351a, 366b, 370b, 371b, Portuguese 226b and 326a; and two courses outside the Department, to be selected with the adviser, dealing with Hispanic-America.

Examinations: one field examination; one general examination.

Fields: the Hispanic-American Colonial Period; the Hispanic-American Modern Period (from the time of independence to the present.)

Program II: for students mainly interested in fields other than literature.

Based on Spanish 100D or its equivalent, History 225a, 286b. By special permission, the language requirement may be partially fulfilled with Portuguese.

Required courses: Ten semester courses, including the following: Spanish 212 or 215; two advanced courses in Hispanic-American literature; six courses, to be selected from Economics, Geology, Government, Hispanic Studies, History, and Sociology, on Hispanic America or related subjects, three of which must be taken in the same discipline.

Two examinations: a field examination taken in the discipline of greater concentration; an integrating examination to be arranged by the adviser and members of the other departments concerned.

Fields: The department foresees fields in Government, History, Economics, and Sociology.

HISPANIC STUDIES

HONORS

Director: Mr Ortega.

Based on 100D or its equivalent.

Requirements: Ten semester courses, including the following: 200a, 212 or 215, and seven courses above the intermediate level, of which three must be seminars; and a long paper equivalent in credit to one or two semester courses written in the first semester of the senior year.

Three examinations: a comprehensive examination; a field examination; an examination in a second field to be determined by the Department.

HISTORY

PROFESSORS:	THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D., L.H.D.
	**MAX SALVADORI, DR. SC. (POL.), LITT.D.
	JEAN STRACHAN WILSON, PH.D.
	KLEMENS VON KLEMPERER, PH.D.
	DONALD HENRY SHEEHAN, PH.D.
	CHARLES WHITMAN MAGSHERRY, PH.D.
	LOUIS COHN-HAFT, PH.D., <i>Chairman</i>
	**NELLY SCHARGO HOYT, PH.D.
	RAMÓN EDUARDO RUIZ, PH.D.
	†STANLEY MAURICE ELKINS, PH.D.
WILLIAM ALLAN NEILSON	
RESEARCH PROFESSOR:	¹ DIETRICH GERHARD, PH.D.
ASSOCIATE PROFESSORS:	†PETER D'ALROY JONES, PH.D.
	GERARD ERNEST CASPARY, PH.D.
	ALLAN MITCHELL, PH.D.
ASSISTANT PROFESSORS:	ROBERT MITCHELL HADDAD, PH.D.
	†HAROLD FRUCHTBAUM, PH.D.
	*JOAN M. AFFERICA, PH.D.
	RAYMOND JACKSON WILSON, PH.D.
	ALLEN WEINSTEIN, PH.D.
INSTRUCTOR:	ROBERT THOMAS McDONALD, A.M.
LECTURERS:	¹ ANN TERESE CAREY, A.M.
	LEONA CHRISTINE GABEL, PH.D.
	² JOHN RATTÉ, PH.D.

Freshmen without advanced placement who are contemplating a major in history are strongly urged to take History 101 or History 102.

Freshmen may become eligible for advanced placement by achieving a satisfactory grade on either the College Board Advanced Placement Examination or the Department's placement examination (offered in the Fall prior to the opening of classes). Special cases should be referred to the Chairman of the Department.

Freshmen eligible for advanced placement, and all sophomores, may register for any intermediate level courses except those from which they are explicitly excluded in the individual course descriptions.

Students planning a Junior Year abroad as history majors are urged to complete

HISTORY

the basis of the major as freshmen and to enter the major in the second semester of the sophomore year.

- 101 *Introduction to Ancient History.* Mediterranean civilization to the decline of the Roman Empire. Lec. W Th 3; dis. T 4-5:50, F 3-4:50. Mr Cohn-Haft (*Director*) and members of the Department.
- 102 *Introduction to European History.* From the early Middle Ages to the beginning of the twentieth century. Lec. M T 10; dis. T W 9, 12, W 10-11:50. Mr Haddad (*Director*) and members of the Department.
- 103b *The Americas in the Colonial Period.* Th F 1:40-2:50. Mr Ruiz, Mr Weinstein.
- 201a *Pro-seminar in Problems in Historical Analysis.* A pro-seminar devoted to problems of method and historical materials. Illustrative examples in each pro-seminar will be taken from a field chosen by the instructor. Fields offered: Ancient, Medieval, Islamic, United States. M 3-4:50; T 4-5:50; F 10-11:50. (Students not majoring in history will be admitted only by written permission of the Chairman of the Department.) Members of the Department.
- 202b *Pro-seminar in Problems in Historical Analysis.* As above. For students entering the major as sophomores. Fields offered: Ancient (or Medieval), Modern European, United States. M 3-4:50; W 10-11:50; Th 3-4:50. Members of the Department.

Division I (Pre-Modern)

- 205b *The Ancient Near East.* Introduction to the history and modern study of the earliest civilizations of the Near East, from the Sumerians and the Old Kingdom in Egypt to the Persian Empire. Th 10, F 10-11:50. Mr Cohn-Haft.
- [206a *Classical Greece.* Th 10, F 10-11:50. Mr Cohn-Haft.]
- 209a *The Roman Republic.* Th 10, F 10-11:50. Mr Cohn-Haft.
- 210b *The Roman Empire.* M T W 12. Mr McDonald.
- 216a *Early English History to 1603.* M T W 12. Mr Caspary.
- 217a *The Medieval World from 300 to 1050.* M T W 2. Mr McDonald.
- 218b *The Medieval World from 1050 to 1400.* M T W 2. Mr Caspary.

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- [219b *Intellectual History of Europe in the Middle Ages*. Recommended background: 102, 216a, 217a, or 218b. M T W 2. Mr Caspary.]
- [220b *The Byzantine Empire, 330-1453*.]
- 221a *History of the Islamic Middle East to the Sixteenth Century*. From Muhammad through the reign of Sulayman the Magnificent. M T W 9. Mr Haddad.
- 222a *Far Eastern History to 1800*. The formation of a distinctive civilization in China; its extension and modification in China and Japan and other areas of Eastern Asia. M T 1:40-2:50. Mr MacSherry.
- [225a *Hispanic-America in the Colonial Period*. Spanish and Portuguese America from the pre-Conquest era through the winning of independence in 1824. Lectures and discussions stressing intellectual, social, and political developments. Th F S 10, F 11 at the option of the instructor. Mr Ruiz.]
- 230b *English History since 1603*. (Counts in both divisions for the purpose of the major distribution requirement). M T W 12. Miss Wilson.
- 231a *History of France from 1453 through the French Revolution*. Alternates with 237a. Th F 8:40-9:50. Mrs Hoyt.
- 233a *History of Russia from the Kievan Period to 1801*. M 3-4:50, T W 3. Miss Carey.
- 234a *Europe in Transition to Early Modern Times*. The age of the Renaissance, 1350-1550. M T W 9. Miss Gabel.
- 235b *Europe in Transition to Early Modern Times*. The age of the Reformation, 1500 to the Thirty Years War. M T W 9. Miss Gabel.
- 236a *England under the Tudors and Stuarts*. Political, social, and intellectual history of England in the sixteenth and seventeenth centuries. Alternates with 254a. M T W 12. Miss Wilson.
- [237a *The Age of Absolutism*. Political, social, and economic problems of Continental Europe from 1648-1789. Freshmen and sophomores admitted only by permission of the instructor. Th F 8:40-9:50. Mrs Hoyt.]
- [238b *Intellectual History of Europe in the Eighteenth Century*. Freshmen and sophomores admitted only by permission of the instructor. Th F 8:40-9:50. Mrs Hoyt.]

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- [276b *Foundations of American Civilization.* A comprehensive analysis of the European origins of American civilization, and of the economic, political, social, and religious development of the colonies up to the era of the Revolution. M T 11, W 12.]

Division II (Modern)

- 246b *History of France from Napoleon to the Present.* Alternates with 250b. Th F S 9. Mr Mitchell.
- 247b *History of Russia from 1801 to the Present.* M 3-4:50, T W 3. Miss Affrica.
- 248a *Problems of German History from 1815 to the Present.* Th F S 9. Mr Mitchell.
- [249a *Intellectual History of Europe in the Nineteenth Century.* Freshmen and sophomores admitted only by permission of the instructor. Th F S 10-10:50, F 11 at the option of the instructor. Mr Mitchell.]
- [250b *Intellectual History of Europe in the Twentieth Century.* Alternates with 246b. Not open to those who have taken 251b. Freshmen and sophomores admitted only by permission of the instructor. Th F S 9. Mr Mitchell.]
- 251b *Europe Between the Two World Wars.* Not open to those who have taken 250b. Freshmen and sophomores admitted only by permission of the instructor. M T 1:40-2:50, W 1:40 at the option of the instructor. Mr von Klemperer.
- 252a *Modern European History.* Europe's liberal age; the transformation of European nations, 1814-1917. Freshmen and sophomores admitted only by permission of the instructor. M T 11-12:10, W 12 at the option of the students. Mr Salvadori.
- 253b *Modern European History.* Conflicts and revolutions in Europe in the twentieth century. Freshmen and sophomores admitted only by permission of the instructor. M T 11-12:10, W 12 at the option of the students. Mr Ratté.
- [254a *Modern Britain.* Political, social, and intellectual history of Britain in the nineteenth and twentieth centuries. Alternates with 236a. M T W 10-10:50. Miss Wilson.]
- 255a *Central Europe, 1815 to the Present.* A study of Central Europe in the nineteenth and twentieth centuries. The Habsburg monarchy and its successor states. Problems of a multinational area in an age of nationalism. The interaction between this area and the great powers. Freshmen and sophomores ad-

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mitted only by permission of the instructor. M T 1:40-2:50, W 1:40 at the option of the instructor. Mr von Klemperer.

- [256b *Modern Imperialism*. Rise and decline of empires, Western and Eastern, from the sixteenth to the twentieth century. M 3-4:50, T 3. Mr Salvadori.]
- 257b *History of the Islamic Middle East from the Sixteenth Century*. From the death of Sulayman to 1914. M T W 9. Mr Haddad.
- 258b *Far Eastern History since 1800*. The period of internal transformation and extensive Western influence. M T 1:40-2:50. Mr MacSherry.
- [259a *Development of Western Economic Society, 1750-1870*. Economic revolution in the West. An introductory study of the creation of industrial society in Britain and its diffusion to Western Europe and the United States. M T W 2.]
- 260b *Development of Western Economic Society, 1870 to the Present*. Problems of capitalist society. The problems faced by mature industrial capitalism and the economic solutions evolved by Western society. M T W 2. Mr Britt. [Economics]
- 270a *American Political History from the Eighteenth Century to 1865*. W Th F 2. Mr Sheehan.
- 271b *American Political History from 1865 to 1945*. W Th F 2. Mr Sheehan.
- 272b *Economic History of the United States in the Twentieth Century*. The recent history of the American economy, studied in close relation to its social and cultural context. Th 10-10:50, F 10-11:50. Mr Weinstein.
- 273a *United States Intellectual History, 1607-1865*. Early development of significant American ideas and social attitudes in relation to social and economic environment. Special emphasis on interchange of American and European ideas, agencies of intellectual life, and developments in religion, science, and the arts. Th 11-12:50, F 12, S 11 at the option of the instructor. Mr Wilson.
- 274b *United States Intellectual History, 1865-1950*. The historical background of contemporary American thought, emphasizing the influence of industrialism, science and religion. Th 11-12:50, F 12, S 11 at the option of the instructor. Mr Wilson.
- 275a *History of the South since the Reconstruction Period*. W Th F 3, Th 4 at the option of the instructor. Mr Weinstein.
- 285a *Argentina, Brazil, and Cuba*. Three major Latin American countries since independence. An analysis of their political, social, and economic problems. Th F S 9. Mr Ruiz.

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- 286b *Mexico and the Hispanic-Indian Republics of Latin America.* The racial, social, political, and intellectual development of Mexico and Latin American nations of similar historical backgrounds from independence to the present. Th F S 9. Mr Ruiz.
- 301, 302a, 303b Special Studies. By permission of the Department for qualified seniors who have had four semester courses above the introductory level. (Division I or II)
- [305b *Problems in the French Revolution.* A lecture-seminar course limited to sixteen students with appropriate previous training. Admission by permission of the instructor. Reading knowledge of French suggested. Th 11-12:50. Mrs Hoyt. (Division I)]
- [306a *The United States during the Federalist and Jeffersonian Periods.* A reading and discussion course limited to eighteen students with appropriate previous training. Admission by permission of the instructor. F 10-11:50. Mr Elkins. (Division II)]

Seminars

Division I (Pre-Modern)

- [310b *Studies in Greek History.* Th 4-5:50. Mr Cohn-Haft.]
- 316b *Studies in the Later Middle Ages.* M 7:30. Mr Caspary.
- [317a *The Relations of Byzantium and the West.*]
- 330a *The Encyclopédie and the Enlightenment.* W 10-11:50. Mrs Hoyt.
- [332b *Renaissance Cities.* M 7:30.]
- 333a *The Expansion of Europe Overseas, 1500-1789.* M 3-4:50. Mr Mendenhall.

Division II (Modern)

- 334b *Topics in Russian History.* Topic for 1967-68: The Revolutions of 1917. M 7:30. Miss Afferica.
- 346a *Modern Britain.* Th 4-5:50. Miss Wilson.
- 347a *Modern Europe.* W 7:30. Mr Salvadori.
- 348a *Problems in European Intellectual History.* Th 7:30. Mr Mitchell.

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- 349b *Modern Germany.* T 4-5:50. Mr von Klemperer.
- [350b *Capitalism and the Social Problem in Europe from the Industrial Revolution to the Crisis of 1929.* W 7:30. Mr Salvadori.]
- 370a *Problems in United States Intellectual History.* Th 3-4:50. Mr Wilson.
- [371a *Problems in Modern Social and Economic History.* W 7:30. Mr Jones.]
- 372b *United States Foreign Policy since 1898.* The seminar will concentrate on policy in the Far East. Th 4-5:50. Mr Sheehan.
- [373a *The Antebellum South.* Th 4-5:50. Mr Elkins.]
- 374b *Problems in United States Political History, 1877-1917.* W 7:30 Mr Weinstein.
- 380a *Revolution and Leadership in Mexico and Cuba.* The comparative study of three revolutions and the role of the intellectuals. M 7:30. Mr Ruiz.
- 381a *Inter-American Affairs.* Latin America and the United States since 1900. Th 7:30. Mr Ruiz.
- 383b *Selected Problems in the History of the Middle East.* Topic for 1967-68: To be announced. T 4-5:50. Mr Haddad.
- 386b *Problems in the Intellectual History of the Far East.* Topic for 1967-68: The Challenge of Western Thought in Nineteenth- and Twentieth-Century China. W 10-11:50. Mr MacSherry.
- [388a *Selected Topics in Comparative History.*]
- [HISTORY AND SOCIAL SCIENCE 395b *Interdepartmental Seminar in Economics, Government, History, and Sociology.*]

Graduate Courses

Qualified undergraduates will be notified by the Department of their eligibility for graduate seminars.

Adviser: Mr Ruiz.

400, 400a, 400b Research and Thesis. (*May be taken for double credit*)

401, 402a, 403b Special problems in advanced work in history, arranged individually with graduate students.

[430a *Early Modern History.*]

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450a *Modern European History*. Hours to be arranged. Mr Salvadori.

470b *United States History*. W 7:30.

THE MAJOR

Advisers: Mr von Klemperer, Mr Sheehan, Mr Ruiz, Mr Caspary, Mr Mitchell, Mr Haddad, Miss Afferica, Mr Wilson, Mr McDonald.

Adviser for the Junior Year Abroad: Mrs Hoyt (first semester), Mr MacSherry (second semester).

Basis: History 101 or 102; or any two of the following courses: History 103b, 205b, 209a, 216a, 217a, 218b, 231a, either 230b or 246b.

Requirements: *General*. A pro-seminar (normally to be taken in the semester in which the student enters the major) and nine semester courses in history and related work, in addition to the basis.

Distributional. A minimum of three semester courses in each of the two Divisions: I (Pre-Modern) and II (Modern). Among these six courses, the basis of the major may only be counted as one; the pro-seminar may not be counted; no more than three courses may be in Middle Eastern, Far Eastern, and Latin American history. The courses in Division II must include one in United States history and one in Modern European history.

Two examinations: Field examinations, of which one *must* be in a General Field and one *may* be in a Special Field.

General Fields: Ancient, Medieval, Early Modern, Modern Europe, United States.

Special Fields: Middle East, Far East, Latin America, England, France, Germany and Central Europe, Russia.

Preparation for the Field Examinations will include required reading and at least two courses in each Field selected, among which the pro-seminar and the basis of the major are not counted. Normally, and particularly if the Department's offerings are taught by a single person, preparation for a Special Field examination will include one course outside the Department.

Any question regarding the Field in which a given course is counted should be referred to the student's major adviser.

HONORS

Director: Miss Wilson.

Basis: two courses in history, or one course in history and one in a field appropriately related to the honors program.

HISTORY

Requirements: a minimum of eight semester courses in history and two additional semester courses in history or in appropriately related courses in other departments. The work in history must include the Unit, *History and Historians*, and at least two other units or seminars offered by the Department. A minimum of three courses (taken as a prerequisite or in the honors program) must be taken in both Divisions I and II. The courses in Division II must include one in Modern European and one in United States history.

A long paper: which will normally count as a single semester course. (Exception: permission for the long paper to count as two semester courses may be granted by the departmental Committee on Honors, on the advice of the director of the paper. In such instances the paper may be written in the first semester of the senior year, counting as two courses in the student's program; or in the second semester of the junior year and the first semester of the senior year, counting as one course in each semester.)

Three examinations: two field examinations, of which one may be taken before the end of the senior year; a third, special honors, examination.

Units

Single Credit

History and Historians (introductory unit). A study of great historians and of the development of historical thought. First semester. M 7:30. Mr MacSherry.

Double Credit

[*Ancient History*. First semester. Mr Cohn-Haft.]

[*Medieval Europe*. Second semester. Mr Caspary.]

[*The Age of the Renaissance*.]

Western Europe in the Seventeenth Century, or England in the Sixteenth and Seventeenth Centuries. Second semester. Miss Wilson.

[*Eighteenth-Century Europe*. Political, social, and economic problems. First semester. Mrs Hoyt.]

Modern Europe. First semester. Mr von Klemperer.

Modern Europe. Second semester. Mr Mitchell.

United States Intellectual History. Second semester. Mr Wilson.

HISTORY

Recent Interpretations of American History. First semester. Th 4. Mr Sheehan.

[*United States Party Politics in the Nineteenth Century.* Second semester. Mr Elkins.]

HISTORY OF SCIENCE

[395a *The Newtonian Synthesis.* The biological and physical sciences from the Greeks to the nineteenth century, with the focus on the work and influence of Newton, his predecessors, opponents, and followers. The course emphasizes the significance of scientific ideas in intellectual history. M 3-4:50. Mr Fruchtbaum.]

[396a *The Darwinian Revolution.* Themes in the history of nineteenth-century science, with the focus on the work and influence of Darwin, his predecessors, opponents, and followers. The role of biology, physics, and the sciences of man in shaping the modern world view is examined. Amherst College. T 2-4:30. Mr Fruchtbaum.]

[397b *The Non-Scientific Foundations of Science.* The influence of theology and philosophy on the history of science. Topics include the role of teleology and natural theology in the development of astronomy, geology, and biology, and the inter-relations of science and religion. M 3-4:50. Mr Fruchtbaum.]

[398b *Science in America.* A history of scientific ideas and institutions in America from the colonial period to the twentieth century. Lectures and discussions will consider the mutual impact of science and American culture. Amherst College. T 2-4:30. Mr Fruchtbaum.]

[399a *The Social Setting of Science.* A history of scientific institutions and the professionalization of science. The state is treated as a promoter of technology, and the scientist as a maker of public policy. Open to sophomores by permission of the instructor. Mount Holyoke College. W 2-4:30. Mr Fruchtbaum.]

ITALIAN LANGUAGE & LITERATURE

PROFESSOR:	GIUSEPPE VELLI, DOTTORE IN LETTERE, <i>Chairman</i>
ASSISTANT PROFESSOR:	§GUIDO FINK, DOTTORE IN LETTERE
INSTRUCTOR:	IOLE FIORILLO MAGRI, DOTTORE IN LINGUE E LETTERATURE STRANIERE, A.M.
LECTURERS:	MARGHERITA SILVI DINALE, DOTTORE IN LETTERE PAOLA OTTOLENGHI VELLI, A.B.

It is recommended that students planning to major in Italian take History 102 and Philosophy 124a, b. Those intending to spend the junior year in Italy should consult the chairman about preparatory courses.

111D or 112 is the prerequisite for 226 and all advanced courses.

In all literature courses majors will be required to write in Italian; non-majors may do written work in English.

A. Language

- 111 *Elementary Course.* M T W 9, 12, and two hours to be arranged. Mrs Magri, Mrs Velli.
- 111D *Elementary Course.* M T W Th F 9, 2; two additional hours to be arranged for conversation. *Three semesters' credit.* Mrs Magri, Mrs Dinale.
- 112 *Intermediate Course.* Reading from modern Italian literature, including grammar and composition; followed by a survey of Italian civilization. Prerequisite: two entrance credits in Italian or 111. M T W 10. Mr Velli.
- 227a *Intermediate Composition.* Reading of and comment on contemporary, not exclusively literary, Italian texts with special emphasis on syntax and style. Italian-English and English-Italian translation. Prerequisite: 111D, 112, or permission of the Department. M T W 3. Mrs Magri.
- 301, 301a, 301b *Special Studies.* By permission of the Department for senior majors who have had three semester courses above the introductory level. Members of the Department.
- 331b *Advanced Composition.* Continuation of 227a with emphasis on composition. Prerequisite: 227a or permission of the Department. M T W 3. Mrs Magri.

ITALIAN LANGUAGE & LITERATURE

B. Literature

- 226 *Survey of Italian Literature.* Reading of outstanding works, and consideration of their cultural and social background. M T W 2. Mrs Velli.
- 336 *Dante: Vita Nuova, Divina Commedia.* M 11-11:50, T 11-12:50. Mr Velli.
- 337a *Selected Readings from "Rerum Vulgarium Fragmenta."* Emphasis on the culture and style of Petrarch. Reasons for and nature of Petrarchism. M 4; Th 3-5. Mr Velli.
- 337b *Boccaccio's Decameron.* Themes, structure, and narrative technique. The position occupied by the work in the Italian prose tradition. Hours to be arranged. Mr Velli.
- [338a *Machiavelli and Renaissance Thought.* Reading of *Il Principe* with ample selections from *Discorsi sopra la Prima Deca di Tito Livio* and from literary works (*Mandragola, Belfagor, Lettere*). Th 2-3:50, F 2-2:50.]
- [338b *Ariosto's Orlando Furioso and the Literary Ideals of the Renaissance.* Analysis of the work and reading of significant episodes. Tasso's *Gerusalemme Liberata* and the spirit of the late sixteenth century. Analysis of Tasso's lyricism and the pre-baroque character of his art. Th 2-3:50, F 2-2:50.]
- 339a *Culture and Literature of the Eighteenth Century.* Selected readings from Vico, *Scienza Nuova*; Alfieri, *Tragedie*; Foscolo, *Ultime Lettere di Jacopo Ortis, Sonetti, Sepolcri*. M 10; W 10-12. Mrs Dinale.
- 339b *Italian Romanticism.* Leopardi: selected readings from his *Canti*. Manzoni: *I Promessi Sposi*, and selections from minor works. M 10; W 10-12. Mrs Dinale.
- [342b *Contemporary Literature from Verga to the Present.* Emphasis on postwar fiction and the position of the contemporary Italian writer, his attitude toward the problems inherent in his craft: literary tradition and personal expression, language and dialect. Hours to be arranged.]

GRADUATE

Adviser: Mr Velli.

450, 450a, 450b Research and Thesis.

451, 451a, 451b Advanced Studies.

ITALIAN LANGUAGE & LITERATURE

THE MAJOR

Advisers: Mr Fink, Mr Velli.

Based on 111D or 112.

Requirements: nine semester courses, including the following: 226; 331b, 336; 337a or b; 338a or b; two of the following: 339a, 339b, 342b.

Two examinations: one in one of the fields listed below; the second a comprehensive examination based on the requirements for the major.

Fields: Dante.

The Italian Trecento; Petrarch and Boccaccio.

The Italian Renaissance.

Italian Neoclassic and Romantic Literature.

HONORS

Directors: Mr Fink, Mr Velli.

Based on 111D or 112.

Requirements: nine semester courses, as in the major, and a long paper (a semester of independent work).

Three examinations: one on the general field of Italian literature; one on a departmental field; one on linguistic preparation.

MATHEMATICS

PROFESSOR:	†NEAL HENRY MCCOY, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	**BERT MENDELSON, PH.D. ALICE B. DICKINSON, PH.D., <i>Acting Chairman</i>
ASSISTANT PROFESSORS:	DONALD ALASTAIR TRUMPLER, PH.D. ROBERT JOHN FABIAN, PH.D. MARJORIE LEE SENECHAL, PH.D.
INSTRUCTORS:	MAY CATHERINE ABBUD, A.M. BILLY JOE THORNE, M.S.

Students planning to take courses in mathematics are expected to offer at least three entrance credits in mathematics; those planning to major in mathematics are advised to take courses in mathematics throughout the freshman and sophomore years. A course in astronomy or physics is also recommended.

- 100a *Topics in Finite Mathematics I.* Logic, programming a computer, and probability. For students who do not plan to major in mathematics or a physical science. W Th F 2. Mr Fabian.
- 101b *Topics in Finite Mathematics II.* Probability, matrix theory, and computer applications. Prerequisite: 100a. W Th F 2. Mr Fabian.
- 102a *Mathematical Analysis.* Trigonometry, analytic geometry, some topics from algebra. Prerequisite: three entrance credits in mathematics, not including analytic geometry. M T W 12, T 11 at the option of the instructor.
- 103a *Calculus I.* The derivative with applications, the integral, the mean value theorem and the fundamental theorem of calculus. Prerequisite: 102a or at least three entrance credits in mathematics including analytic geometry. M T W 10, W 11 at the option of the instructor; M T W 12, T 11 at the option of the instructor; M T W 3, M 4 at the option of the instructor; Th F S 10, F 11 at the option of the instructor. Members of the Department.
- 103b Repetition of 103a. M T W 12, T 11 at the option of the instructor.
- 104a *Calculus II.* Applications of the definite integral, inverse functions, logarithmic and exponential functions, techniques of integration, vectors in two and three dimensions. Prerequisite: 103a, 103b (12), or four entrance credits in mathematics including analytic geometry and at least a half-year of calculus. M T W 10, W 11 at the option of the instructor; M T W 3, M 4 at the option of the instructor. Mrs Dickinson.

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- 104b Repetition of 104a. M T W 10, W 11 at the option of the instructor; M T W 12, T 11 at the option of the instructor; M T W 3, M 4 at the option of the instructor; Th F S 10, F 11 at the option of the instructor. Members of the Department.
- 113a *Computing Supplement to the Calculus.* Use of the computer to solve problems relevant to the calculus. Open to students who have taken or are taking a calculus course. No credit. T 4-5:10. Mr Fabian.
- 202a *Calculus III.* Partial differentiation and multiple integration with applications. Prerequisite: 104a or b. M T W 9; Th F S 9. Mr Trumpler, Mr Mendelson.
- 202b Repetition of 202a. M T W 10, W 11 at the option of the instructor; M T W 3, M 4 at the option of the instructor. Mrs Dickinson.
- 203a *Topics in Calculus and Linear Algebra.* Prerequisite: 104a or b. M T W 9. Mrs Senechal.
- 203b Repetition of 203a. M T W 9; Th F S 9. Mr Trumpler.
- 204b *Topics in Applied Mathematics.* Fourier series, line and surface integrals, and special functions useful in applications. Prerequisite: 203a or b. M T W 2. Mrs Dickinson.
- 222a *Differential Equations.* Theory and applications of ordinary differential equations. Prerequisite: 202a or b. M T W 2. Mrs Dickinson.
- 233a *Modern Algebra.* An introduction to the most important concepts of abstract algebra, including rings, fields and groups. Prerequisite: 202a or b, or permission of the instructor. M T W 9. Mr Thorne.
- 234a *Projective Geometry.* Axioms, duality, projectivities, equivalent formulations of the fundamental theorem, introduction of coordinates, conics. Prerequisite: 202a or b, or permission of the instructor. (Will not be offered in 1968-69.) Th 10, F 10-11:50. Miss Abbud.
- 235b *Topics in Foundations of Mathematics.* Prerequisite: 233a. Th 11-12:50, F 12. Mrs Dickinson.
- 236b *Theory of Automata.* Introduction to mathematical models of digital computers including Turing machines and finite automata, and topics in the logical design of switching circuits. Prerequisite: 233a, or permission of the instructor. W Th F 3. Mr Fabian.

MATHEMATICS

- 238b *Theory of Numbers.* Properties of integers including congruences, primitive roots, quadratic residues, continued fractions. Prerequisite: 233a. W Th F 2. Mrs Senechal.
- [240b *Differential Geometry.* Differential geometry of curves and surfaces in three dimensions. Prerequisite: 203a or b. M T W 12. Mr Mendelson.]
- 242a *Topology.* Point set topology, the real line, metric spaces, abstract topological spaces. Prerequisite: 203a or b. M T W 10. Mr Mendelson.
- 244a *Complex Variables.* Complex numbers, differentiation, integration, Cauchy integral formula, calculus of residues, applications. Prerequisite: 202a or b and 203a or b. W Th F 2. Mrs Senechal.
- 246b *Probability.* Mathematical theory of probability with an introduction to mathematical statistics. For students who have passed or are taking 203a or b. M T W 10. Mrs Senechal.
- 301a, 301b *Special Studies.* By permission of the Department for majors who have had at least four semester courses beyond 104a or b.
- 333b *Topics in Abstract Algebra.* Vector spaces, linear transformations, further study of topics included in 233a. Prerequisite: 233a. M T W 9.
- 343a *Advanced Calculus I.* A rigorous treatment of the concepts of the calculus. Prerequisite: 203b or 204b. M T W 9. Mr Trumpler.
- 343b *Advanced Calculus II.* Prerequisite: 343a. M T W 9. Mr Trumpler.

GRADUATE

- 420a, b *Special Studies in Topology and Analysis.*
- 430a, b *Special Studies in Modern Geometry.*
- 440a, b *Special Studies in Algebra.*

THE MAJOR

Advisers: Mr McCoy, Mr Mendelson, Mrs Dickinson.

Based on 104a or b (13 or the first semester of 21), or a course at a higher level.

Requirements: Eight semester courses, including 202a or b, 203a or b, and 233a.

Two of the eight may be chosen from the following: Astronomy 122a and b or courses at a higher level; Chemistry 231, 345a, 455a and b; Philosophy 231b; Physics 121a or courses at a higher level.

MATHEMATICS

Examinations in any two of the following fields:

General Analysis (including Calculus and Differential Equations)

Modern Algebra (including the Theory of Numbers)

Geometry and Topology

Real and Complex Analysis (including Advanced Calculus and Complex Variables)

HONORS

Director: Mrs Dickinson.

Basis: 203a or b (22b or 31a), 233a (33a).

Requirements: in addition to the eight courses required for the major, students must take the honors units, 348a and b (which include the long paper), in the senior year.

Three examinations: an oral examination covering the topic of specialization in the honors units; two written examinations, one of which must be a field examination.

Units

348a Directed reading, exposition, and long paper. The topic of specialization will be chosen in consultation with the director at the beginning of the senior year. (*May be taken for double credit*)

348b Directed reading, exposition, long paper, review and coordination.

MUSIC

PROFESSORS:	ALVIN DERALD ETLER, MUS.B. GERTRUDE PARKER SMITH, A.M. IVA DEE HIATT, M.A., <i>Director of Choral Music</i> †PHILIP KEPPLER, M.F.A. VERNON D. GOTWALS, JR., M.F.A., <i>Chairman</i> SYLVIA WISDOM KENNEY, PH.D.
ASSOCIATE PROFESSORS:	†ROBERT MARTIN MILLER, MUS.M., LIC. DE CONCERT †DOROTHY STAHL, B.MUS. ADRIENNE AUERSWALD, A.M. EDWIN LONDON, PH.D.
ASSISTANT PROFESSORS:	GEORGE THEOPHILUS WALKER, D.M.A. PHILIPP OTTO NAEGELE, PH.D. LORY WALLFISCH WILLIAM WITTIG, MUS.M.
INSTRUCTORS:	LYNN CLARKE MEYERS, B.S. JOHN PORTER SESSIONS CATHARINE R. MELHORN, M.A. PATRICIA A. MONK, MUS.M.
TEACHING FELLOW:	KATHLEEN J. MILLS, A.M.
LECTURER:	ERNST WALLFISCH

Students considering a major in music are strongly advised to take 111 in the freshman year.

A. Theory and Composition

- 111 *Elementary Course.* Ear training and exercises in two- and four-part writing. M T W 3; W Th F 3; M 4 and F 4 at the option of the instructor; Th F S 8:40-9:50. Miss Smith, Mr Sessions.
- [126a *Musical Acoustics.* Production of musical sound, subjective aspects of musical hearing, pitch, loudness, timbre, the voice, instruments of the orchestra, synthesized and electronic musical sound, acoustics of rooms and auditoria, the recording and reproduction of sound. Lectures illustrated by experimental demonstrations and slides. *One-quarter course credit.* To be given in 1968-69. Mr Josephs. Physics]
- 221 *Intermediate Course.* Ear training and exercises in writing with linear emphasis. Prerequisite: 111. M T W 1:40. Mr Etler.

- 224a *Keyboard Harmony*. Prerequisite: 221 and permission of the instructor. Th 11-12:50, F 12 at the option of the instructor. Miss Smith.
- 231a *Tonal Organization*. Practice in analytical techniques. Prerequisite: 221. M T 11-12:10. Miss Smith.
- 233 *Composition in Small Forms*. Prerequisite: 221. Mr Etler.
- 342 *Composition for Small Instrumental Groups*. Prerequisite: 233. Mr Etler.

B. History and Literature

- 113 *An Introduction to Music*. First semester: observation of the elements of music and musical form. Second semester: a consideration of musical styles from the Renaissance to the present. No previous training in music is required. M T 3 and a third hour to be arranged for sections. Mr Wittig.
- 223 *History of Musical Style*. Prerequisite: 111 or 113. W Th F 3; required listening Th 4-5:50 or F 11-12:50. Miss Kenney.
- 234a *Beethoven*. Prerequisite: 223 or permission of the instructor. To alternate with 235a. Th 3-4:50, F 3. Mr London.
- [235a *Symphonic Developments in the Nineteenth Century*. Prerequisite: 223 or permission of the instructor. Alternates with 234a. Th 3-4:50, F 3. Mr London, Mr Wallfisch.]
- 236a *Baroque and Classical Opera*. The Venetian and Neapolitan Schools; Italian opera in Germany and England; operatic reform and comic opera in the eighteenth century. Prerequisite: 111 or 113. T 4. Miss Kenney.
- 236b *Nineteenth-Century Opera*. Main trends in Romantic opera with emphasis on Verdi and Wagner. Prerequisite: 111 or 113. T 4. Mr London.
- [237a *Solo Song*. Study of representative works from 1800 to 1925. Prerequisite: 111 or 113. M T W 2. Miss Smith.]
- 301, 301a, 301b Special Studies in the theory and literature of music. By permission of the Department for senior majors.
- 337b *Bach, Handel, and Their Contemporaries*. Prerequisite: 223. Th 10, F 10-11:50. Mr Naegele.
- 338a *Haydn and Mozart*. Prerequisite: 223. Th 10, F 10-11:50. Mr Gotwals.

MUSIC

- 344b *Seminar in Sixteenth-Century Music.* Prerequisite: 223. Th 11-12:50. Miss Smith.
- 345b *Modern Music.* Prerequisite: 231a. M 3-4:50. Mr Etler.
- [346b *Twentieth-Century Music for Theatre.* A study of contemporary operas and ballets. Prerequisite: 231a. Alternates with 345b. Th 3-4:50, F 3. Mr London.]

GRADUATE

Adviser: Miss Kenney.

401, 401a, 401b Special Studies.

450, 450a, 450b Research and Thesis.

452a *Precedents for Contemporary Procedures.* Open to seniors by permission of the instructor. Alternates with 453a. Mr Etler.

[453a *Serialism.* Open to seniors by permission of the instructor. Alternates with 452a.]

455a *Seminar in Medieval Music.* Open to seniors by permission of the instructor. Th 11-12:50. Miss Kenney.

C. Practical Music

Courses are offered in the technique and representative literature of the piano, organ, harpsichord, voice, violin, viola, violoncello, viola da gamba, flute, oboe, clarinet, bassoon, and French horn, and in instrumental ensemble and conducting. There are fees for all courses involving individual instruction and for the use of practice rooms. These fees are listed on page 212 of the Catalogue.

Courses in practical music normally require one hour of individual instruction per week. The required minimum of practice time is five hours per week for half-courses and ten hours for full courses.

Introductory level courses in practical music *must be taken above the minimum program and are counted as half-courses.*

Courses of intermediate or advanced level may be taken *within or above the minimum program, as a full course or half-course, respectively,* but a student who wishes to continue practical music above the introductory level must take at least one year course or two semester courses from Division A or B before graduation.

No field examination is offered in practical music, and no course examination in this field may therefore be waived.

A minimum grade of C is required for admission to a second year course in practical music.

A minimum grade of B is required for admission to a course above the introductory level.

Before registering for any course in practical music, the student must arrange an audition through the office of the Music Department. Auditions are held in May and September.

STRINGED INSTRUMENTS, WIND INSTRUMENTS. Candidates for these courses will be expected to play a piece of their own choice.

VOICE. Candidates for Music 141 will be expected to perform a song for solo voice.

PIANO. Candidates for Music 121 will be expected to play three pieces representing different styles in piano literature, one from each of the following headings: (1) a piece by J. S. Bach; (2) an allegro movement from a sonatina or sonata by Clementi, Kuhlau, Haydn, Mozart, or Beethoven; (3) a piece composed after 1825.

Piano. 121, 122, 222, 323, 424. Mr Walker, Mrs Wallfisch, Miss Monk.

Organ. 132, 232, 333, 434. Prerequisite: 121 or its equivalent. Mr Gotwals.

Harpsichord. 202, 303, 404. Prerequisite: 222 or 232, and permission of the instructor. Mrs Wallfisch.

Voice. 141. This course will require two class hours, one half-hour lesson, and four hours of practice per week. 142, 242, 343, 444. Miss Auerswald, Mrs Meyers.

Violin. 151, 152, 252, 353, 454. Mr Naegele.

Viola. 161, 162, 262, 363, 464. Mr Wallfisch.

Violoncello. 171, 172, 272, 373, 474. Mr Sessions.

Viola da Gamba. 163, 164, 264, 364. Mr Wallfisch.

Wind Instruments. 181, 182, 282, 383, 484. Mr Etler (*Director*), oboe; Mr Wittig, flute; Mr Lynes, clarinet; Mr Hebert, bassoon; Mr London, French horn.

MUSIC

- Instrumental Ensemble.* 191a, 191b, 192a, 192b, 292a, 292b, 393a, 393b. Open to qualified students who are studying their instruments. These courses require one hour lesson and three hours of practice per week. *One-quarter course credit.* Mr Naegele and Mr Wallfisch, strings; Mr London, winds.
- 210b *Orchestral Conducting.* Instrumental usage, score-reading and baton technique. Prerequisite: 223, and permission of the instructor. Two class hours. *One-quarter course credit.* W 11-12:50. Mr London.
- 220a, 220b *Choral Conducting.* Study of various styles of choral music suitable for secondary schools and small groups. The course will be limited to sixteen students. Prerequisite for 220a; 221 or 223 and permission of the instructor. Prerequisite for 220b: 220a. Two class hours. *One-quarter course credit.* T 4-5:50. Miss Hiatt.
- [241b *English Diction for Singers.* Prerequisite: 142. Two class hours. *One-quarter course credit.* Miss Stahl.]
- 316b *The Teaching of Music.* Advanced music education with opportunity for observation and practice teaching in public and private secondary schools. Prerequisite: 223 or Education 316a. Th 7:30.

THE MAJOR

Advisers: Miss Smith, Mr Gotwals.

Based on 221.

Requirements: Eight semester courses, including the following: 223, 231a, and five additional semesters of intermediate or advanced grade.

Two examinations: one in Field A and one in Field B.

Fields: A. Theory and Composition.

B. History and Literature.

C. Practical Music.

HONORS

Director: Miss Smith.

Based on 111, 221, 223.

Requirements: students will fulfill the requirements of the major and, in the senior year, present a long paper equivalent to one semester course in the first semester, and participate in the Honors Unit in the second semester.

Three examinations: two in departmental fields, and one special examination.

Honors Unit: Second semester. Miss Kenney.

PHILOSOPHY

PROFESSORS:	†ALICE AMBROSE LAZEROWITZ, PH.D., LL.D. **MORRIS LAZEROWITZ, PH.D.
ASSOCIATE PROFESSORS:	MURRAY JAMES KITELEY, PH.D., <i>Chairman</i> KENNETH STERN, PH.D.
INSTRUCTOR:	MALCOLM B. E. SMITH, B.A.
LECTURERS:	¹ ANNETTE NEMORE BARNES, PH.D. ² ANITA DUNLEVY FRITZ, PH.D.

- 111a, 111b *Basic Philosophical Problems*. Reading and discussion of some of the most important classical and modern philosophical works, to introduce the student to such topics as the relation of mind and body, sources of knowledge, freedom and determinism, nature and status of ideas. A different selection of problems in each semester. 111a is *not* a prerequisite for 111b. For 111a: M T W 9, 10; W Th 1:40-2:50; W 3, Th 3-5; for 111b: M T W 9, 10, W Th 1:40-2:50; W 3-3:50, Th 3-4:50. Mr Stern, Mrs Barnes.
- 121a *Logic*. Study of formal inference: truth-function techniques, elementary quantification, classes, the syllogism. The course is intended to train the student in effective use of principles of correct reasoning. M T W 10, 12. Mr Lazerowitz.
- 121b Repetition of 121a. W Th 1:40-2:50; W 3, Th 3-4:50. Mrs Fritz.
- 124a *History of Ancient and Medieval Philosophy*. A study of Western philosophy from the early Greeks to the end of the Middle Ages, with emphasis on the pre-Socratics, Plato, Aristotle, the Stoics and Epicureans, and some of the scholastic philosophers. *Not* open to freshmen. M T W 9; Th F 8:40-9:50. Mr Kiteley, Mr Smith.
- 124b *History of Modern Philosophy*. A study of Western philosophy from Bacon through the eighteenth century, with emphasis on Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, and Kant. 111a is a prerequisite for freshmen. M T W 9; Th F 8:40-9:50; Th 10, F 10-11:50. Mr Kiteley, Mr Smith.
- 222b *Ethics*. Critical introduction to some of the major normative and metaethical theories. Problems concerning utilitarianism, formalism, the nature of goodness, moral knowledge. Prerequisite for freshmen: 111a. Th F 1:40-2:50. Mr Smith.

PHILOSOPHY

- 230b *American Philosophy*. Philosophical ideas of Edwards, Emerson, Royce, James, Dewey, and others, with attention to the connection of these ideas with current religious, political, and moral views. M T 1:40-2:50. Mr Stern.
- [231b *Logic*. Postulate sets and their properties. Quantification theory. Foundations of mathematics and connected philosophical topics. *Not* open to freshmen. Prerequisite: 121a or b. Th 4-5:50 and a third hour to be arranged. Mrs Lazerowitz.]
- 233a *Aesthetics*. Discussion of problems about art: the nature of art, the nature of aesthetic experience, the role of the critic, and other problems. Th F 1:40-2:50. Mr Smith.
- [234a *Continental Rationalism*. A study of Descartes' works and the writings of his critics from his own time to the present. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b; 236b. M T 1:40-2:50. Mr Stern.]
- [235a *Kant*. A study of special topics in the *Critique of Pure Reason*, with consideration of their influence on later philosophers. Prerequisite: 124a and b. Th 11-12:50. Mr Lazerowitz.]
- [236b *Plato*. Study of the major dialogues, with special emphasis on Plato's lasting contributions to philosophy. Given in alternate years. Prerequisite: two semester courses chosen from 111a, b; 124a, b; or permission of the instructor. M 3-4:50. Mr Kiteley.]
- 237b *Systematic Philosophy*. Study of some systematic view through analysis of the work of a selected philosopher, classical or modern. To vary from year to year. (1967-68: Aristotle.) Prerequisite: two semester courses chosen from 111a, b; 124a, b; 236b; or permission of the instructor. M 3-4:50. Mr Kiteley.
- 301, 301a, 301b Special Studies. For senior majors, by arrangement with the Department.
- 311a *Recent and Contemporary Philosophy*. Bradley, Russell, G. E. Moore. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b. Open to sophomores by permission of the instructor. Th 4-5:50 and a third hour to be arranged. Mr Kiteley.
- 311b *Recent and Contemporary Philosophy*. Carnap, Austin, Strawson, Quine. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b. Open to sophomores by permission of the instructor. Th 4-5:50 and a third hour to be arranged. Mr Kiteley.

- [312b *Wittgenstein*. Certain views in the *Tractatus Logico-Philosophicus* and in *Philosophical Investigations*. Changes in the techniques of philosophy from Logical Positivism to Linguistic Analysis. Given in alternate years. Prerequisite: two semester courses chosen from 111a, b; 124a, b; 231b; 236b. T 4-5:50. Mrs Lazerowitz.]
- 321a *Philosophy of Science*. The study of some problems raised by a philosophical scrutiny of science. Analyses of the concepts of *explanation*, *law of nature*, *confirmation*, *induction*, *causation*, *purpose*, and others. Discussion of the implications of science for broader philosophical issues such as value and freedom. Prerequisite: six semester hours chosen from 111a, 111b, 121a, 121b; or permission of the instructor. M 7:30-9:30. Mr Stern.
- [332a *Metaphysics and Language*. Development of a new linguistic technique for the solution of philosophical problems. Its application to a selection of metaphysical theories about time, space, substance, causality and freedom, abstract entities, God. Prerequisite: three semester courses chosen from 111a, b; 124a, b; 231b; 234a; 235a; 236b; 237b; 311a, b; 312b. Th 11-12:50. Mr Lazerowitz.]
- [332b *Epistemology*. General explanation of a new linguistic technique for the solution of philosophical problems. Its application to problems about our knowledge of the external world, other minds, rationalism and empiricism, the synthetic a priori. Prerequisite: three semester courses chosen from 111a, b; 124a, b; 231b; 234a; 235a; 236b; 237b; 311a, b; 312b; 334a. Th 11-12:50. Mr Lazerowitz.]
- 334a *Philosophical Topics: Perception*. An examination of selected problems concerning perception; the nature of perception; phenomenism; sense datum theories; the geometry of appearance; perceptual foundations of knowledge. Prerequisite: two semester courses in philosophy or permission of either instructor. M 3-4:50. Mr Kiteley; Mr Barnes, Amherst College.

See also the Intercollegiate Courses in the History of Science, p. 56.

SEMINARS

- [333a *Ethics*. Mr Smith.]
- [333b *Aesthetics*. Mr Smith.]
- 335a *British Empiricism*. The foundations of Empiricism in the critique of Rationalism. The development of the Empiricist tradition through its major figures, with emphasis on special problems. Th 11-12:50. Mr Lazerowitz.
- [335b *Philosophical Analysis*. Mr Lazerowitz.]

PHILOSOPHY

Graduate

Adviser: Mr Lazerowitz.

450, 450a, 450b Research and Thesis. *May be taken for double credit.*

451, 451a, 451b Advanced Studies. By permission of the Department for graduates and qualified undergraduates (e.g., *Theory of Probable Inference*, *Topics in Logical Theory*, *Philosophy of Language*, *Contemporary Ethics*).

THE MAJOR

Adviser: Mr Stern.

Based on two semester courses in philosophy.

Requirements: Eight semester courses, including any two from 111a, 111b, 124a, and 124b, unless these are used as the basis of the major.

Two examinations: one in the History of Philosophy (Field 1), and one chosen by the student from one of the other fields.

- Fields:
1. History of Philosophy.
 2. Metaphysics.
 3. Theory of Knowledge.
 4. Logic and Philosophy of Science.
 5. Value Theory (Ethics and Aesthetics).

HONORS

Director: Mr Kiteley.

Based on two semester courses from 111a, 111b, 124a, 124b. In addition, 121a or b is advised. For other prerequisites for specific programs, the director should be consulted.

Requirements: a minimum of eight semester courses in philosophy, and two additional semester courses in philosophy or in a related field; a long paper written in the first semester. The work in philosophy shall normally include two seminars.

Three examinations: one on History of Philosophy (Field 1); one on value theories and methodology; one on some special topic in a departmental field or in a field of some related department.

PHYSICAL EDUCATION

PROFESSOR:	JANE ADELE MOTT, PH.D., <i>Director</i>
ASSOCIATE PROFESSORS:	†ANNE LEE DELANO, A.M. EUNICE ELLEN WAY, PH.D. RITA MAY BENSON, M.S. IN H.P.E. ROSALIND SHAFFER DEMILLE, M.A.
ASSISTANT PROFESSORS:	CARYL MIRIAM NEWHOF, M.S. IN PHY. ED. MARTHA CLUTE, A.M. SHIRLEY JOYCE PERRY, M.S. IN PHY. ED.
INSTRUCTORS:	SYLVIA JANE WILSON, M.S. IN PHY. ED. WENDY JOYCE WILLETT, M.S. IN PHY. ED. ROSE MARIE LYON, M.S. IN ED. LINDA K. HALL, B.S. JANET PERLEY HIGGIN, B.S. IN ED. ISABEL HARPER BROWN, A.B. DORIS S. KOSTRINSKY, M.A. CONSTANCE NOREEN GALT, B.S. CAROL MARGARET JOY, B.S. MARY GRETCHEN SINGLETON, B.S. CAROLINE M. DRUMMOND, B.S. SHERRY ROSE POSTHUMUS, A.B.
LECTURER:	² AILEENE LOCKHART, PH.D., SC.D. (HON.)

Physical Education is offered on a trimester system: Fall, Winter, and Spring terms.

The Athletic Association, open to all students, is under the direction of this Department.

A. Physical Education for Undergraduates

Requirements

Satisfactory completion of 100a, Fall term, and five terms selected from the offerings in 100b, c, 200a, b, c, and 225a, b, c is required of all students within the first three years. At the option of the student, the requirement may be completed by the end of the sophomore year. The level of work may be introductory, intermediate, or advanced depending on the ability, needs, and physical condition of the individual. Repeated failure in these courses may result in the student being requested by the President to withdraw from college.

PHYSICAL EDUCATION

Physical education above the normal requirement may be required for any student who falls below a reasonable level of health and physical fitness.

Students enrolled in physical education are required to buy uniform clothing as designated by the Department.

Exemptions

Entering students who demonstrate knowledge and proficiency in physical education may be granted total exemption (1) from Beginning Swimming, on the basis of a practical test; (2) from the Basic Motor Skills unit of instruction, on the basis of an examination both written and practical. Partial exemption from the Physical Education requirement may be granted on the basis of a written and practical examination in any two of the following: basketball, badminton, tennis, golf, field hockey, intermediate or advanced swimming, soccer, volleyball, riding, modern dance, lacrosse, canoeing, and softball. (Partial exemption consists of a reduction from three to two required hours per week in the Winter and Spring terms of the freshman year and one full term of the sophomore year.) Tests for exemptions will be administered during the first week of College.

It is assumed that entering students who receive such exemption will engage regularly in sports or dance activities for recreation.

100a, 100b, 100c. *Basic Motor Skills, Dance, and Sports.*¹ Three periods of one hour each for freshmen.

Fall Term. Required for freshmen. One period, basic motor skills; two periods, swimming for those who have not passed the test, for others a choice of the following:

Adapted physical education.

Dance: ballet, folk, and modern.

Sports: archery, canoeing, crew, golf, hockey, riding, sailing, soccer, swimming, tennis, volleyball.

Winter Term. Three periods, swimming for those who have not passed the test, for others a choice of:

Adapted physical education.

Conditioning.

Dance: ballet, folk, and modern.

Sports: badminton, basketball, bowling, fencing, riding, skiing, squash, swimming, tumbling and apparatus.

¹A small fee is charged for badminton, golf, sailing, skiing, tennis, and tenpin bowling. The riding fee covers the rental of horses.

PHYSICAL EDUCATION

Spring Term. Three periods, swimming and basic motor skills for those who have not passed the tests; for others a choice of:

Adapted physical education.

Dance: ballet and modern.

Sports: archery, canoeing, children's games, crew, golf, lacrosse, riding, softball, swimming, tennis, track and field, volleyball.

200a, b, c; 225a, b, c; 250a, b, c. *Basic Motor Skills, Dance, and Sports* for sophomores, juniors, and seniors, respectively. Three periods of one hour each. Each term a choice of activities as listed under the corresponding term for 100a, b, and c.

Optional Class and Recreational Opportunities

Non-Credit Participation in Sports and Dance

Students may elect classes above the required three hours per week. Those having completed the physical education requirement may elect any class listed under 100a, b, c, or may enroll in sections limited to upperclassmen.

All students whose health status is satisfactory may participate in intramural competition, sports and dance open hours, club activities, and special events such as weekend sailing, outing trips, and horseback rides.

Introduction to Teaching Physical Education

Undergraduates interested in coaching sports at the secondary school level or in recreational leadership work, and those who plan to enroll in the graduate course in physical education leading to the M.S. degree may select one or more of the following courses: Physical Education 400a, 405a, 405b, 410a, or 415b. Zoology 132b is a prerequisite for Physical Education 400a, 410a, 415b.

B. Graduate Program for the Preparation of Teachers of Physical Education

Enrollment in the graduate program is open both to students who have majored in physical education as undergraduates and to those who have majored in other subjects. For students who have *not* majored in physical education as undergraduates, the program includes a preliminary year of study. Properly qualified students from Smith and other colleges will be accepted for work toward the degree of Master of Science in Physical Education (M.S. in Phy. Ed.). Two semester courses of zoology, three semester courses of education, and two semester courses in one of the following: chemistry, mathematics, microbiology, nutrition, physics, experimental psychology,

PHYSICAL EDUCATION

zoology should be offered as prerequisites. Smith College students and others who have satisfactorily completed these courses and the equivalent of four of the five Physical Education courses 400a, 405a, 405b, 410a, 415b may become candidates for the degree in the first year; other students normally require two years.

For further information write to Miss Mott, Scott Gymnasium, for the special booklet describing the program.

- 400a or b *Adapted Physical Education*. Study of the preventive and corrective phases of physical education and of physical conditions requiring exercise adaptations. Hours to be arranged. Miss Perry.
- 405a, 405b *The Teaching of Physical Education Activities*. Curriculum materials for the teaching of adapted physical education, basic motor skills, dance, and sports. Supervised teaching. Lectures and practice. Required in the first year of students enrolled in the two-year graduate course. Open to undergraduates by permission of the Director of Physical Education. Prerequisite for 405b: 405a. Hours to be arranged. Members of the Department.
- 410a *The Anatomy of Movement*. Kinesiology, an analytical study of human motor activity. Two lectures and three hours of laboratory. Prerequisite: Zoology 132b and permission of the Director of Physical Education. Hours to be arranged. Miss Perry.
- 415b *The Physiology of Movement*. Physiology applied to human motor activity. Two lectures and three hours of laboratory. Prerequisite: Zoology 132b and permission of the Director of Physical Education. Hours to be arranged. Miss Way.
- 420a, 420b *Special Studies*. In adapted physical education, administration, current problems, dance, recreation, or other approved topics. Hours scheduled individually. Members of the Department.
- 425a, 425b *The Teaching of Physical Education Activities*. Theory and practice. Continuation of 405a, 405b, offering opportunity to specialize in the teaching of adapted physical education and basic motor skills, dance, or sports. Required of candidates for the master's degree. Hours to be arranged. Members of the Department.
- 430a *Evaluation of Physical Education*. Quantitative and qualitative evaluation of physical education including testing and statistical methods. Hours to be arranged. Miss Mott.
- 435b *Evaluation of Physical Education*. Continuation of 430a. Hours to be arranged. Miss Mott.

PHYSICAL EDUCATION

- 440a or 440b *Seminar in Administration of Physical Education and Recreation*. The organization and administration of school and camp programs of physical education and recreation; the teaching and supervision of safety education. Hours to be arranged. Miss Mott.
- 445a *Research in Physical Education*. Critical survey of literature, study of research design and techniques, and practice in preparation of research reports. Required of candidates for the Master's degree. Hours to be arranged. Miss Way.
- 450, 450a, 450b Thesis. One semester required of master's degree candidates. Two semesters optional. Hours to be arranged. Miss Way.
- 455b or 455a *History and Principles of Physical Education*. Hours to be arranged.
- 460a or 460b *Directed Teaching in Physical Education*. Individually arranged.

PHYSICS

PROFESSORS:	**JESS J. JOSEPHS, PH.D. ADAM HENRY SPEES, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	MELVIN SANFORD STEINBERG, PH.D.
ASSISTANT PROFESSORS:	WILLIAM BRUCE HAWKINS, PH.D. MICHAEL WALTER RICE, PH.D.
TEACHING FELLOW:	MURRAY PATLOVE, B.S.

Students planning to major in physics are advised to elect both 115 and a course in mathematics in the freshman year. Mathematics 202a and Physics 220b should normally be taken in the sophomore year. Students majoring in other quantitative sciences are urged to take 115 rather than 111a and b. Either Physics 111a, b and 120a or Physical Science 193 and Physics 120a are considered equivalent to Physics 115.

Among the courses which may be taken to fulfill the science requirement are 111a, b, 115, and Physical Science 193. (For Physical Science 193, see p. 14)

Students interested in preparing for limited positions in research laboratories, teaching in secondary school science, or graduate study should see the adviser for the major, the secondary school teaching adviser, or the graduate study adviser, respectively, during the sophomore year. Students interested in arranging a program directed toward graduate work in biophysics should see the adviser for the major early in the freshman year.

Course descriptions include sequence designation.

- 111a, b *Elementary Physics*. Wave motion, light, dynamics, electricity, and atomic physics. Principles of physics are developed in class discussions based on laboratory observations. Logical induction takes the place of formal mathematical analysis. Arrangements may be made for students who have taken Education 235a to do practice teaching in connection with this course. One two-hour laboratory and three hours of lecture and class discussion per week. Prerequisite for 111b: 111a. Lec. and dis. M T 10-10:50, W 10-11:50; lab. W 2, Th 11. Mr Rice.
- 115 *General Physics (G I, II)*. First semester: The motion of material bodies, concentrating on inertia, energy, and interactions, with emphasis on operational definitions. Second semester: Electromagnetism and relativity, wave phenomena, and a brief introduction to quantum physics. Three lectures and one three-hour laboratory period. Prerequisite: Calculus I and II, which may be taken concurrently. Recommended for students intending to major in science

or in mathematics. Lec. Th F S 10, F 11 at the option of the instructor; lab. M T 2, W 10, Th F 2. Mr Steinberg and other members of the Department.

- 120a *General Physics Problems*. Prerequisite: 111b, or Physical Science 193; and Calculus I and II, which may be taken concurrently. One class period; a three-hour laboratory period for those entering with Physical Science 193 only. *One-quarter course credit*. F 11. Members of the Department.
- 121a *Introduction to Modern Physics (G III)*. The revolution in physics that led to the modern concept of the atom, the nucleus and the structure of matter; an introduction to the quantum aspects of light, wave aspects of particles, the vector model of the atom and nucleus, theories of the solid state, and simple molecular spectra. Discussion of a recent topic such as Mössbauer effect or lasers is included. Prerequisite: 115 or the equivalent (students offering 111b or Physical Science 193 must take 120a concurrently with 121a). Th S 10, F 10-11:50. Mr Spees.
- [126a *Musical Acoustics*. Production of musical sound, subjective aspects of musical hearing, pitch, loudness, timbre, the voice, instruments of the orchestra, synthesized and electronic musical sound, acoustics of rooms and auditoria, the recording and reproduction of sound. Lectures illustrated by experimental demonstrations and slides. *One-quarter course credit*. To be given in 1968-69. Mr Josephs.]
- 214b *Electricity and Magnetism (E I)*. Electric and magnetic fields. Laboratory work with electric circuits and electron physics. Prerequisites: 115 or the equivalent. Lec. and lab. Th F 10-12:50. Mr Rice.
- 220b *Mechanics I*. Newtonian dynamics of particles and rigid bodies, relativistic mechanics. Prerequisite: 115 (may be taken concurrently). M T W 3. Mr Hawkins.
- [221b *Experimental Modern Physics (MP I)*. Some of the experiments in modern physics dealing with matter and radiation. Prerequisite: 121a and 214b. Two three-hour periods. T Th 2. Mr Spees.]
- 224a *Electronics (E II)*. A semester of experiments in electronics, using transistors and vacuum tubes, leading to some independent work. Prerequisite: 214b, or by permission of the instructor. Two three-hour laboratory periods. T Th 2. Mr Josephs.
- 230a *Mathematical Techniques Selected for Usefulness in Physical Science*. Vector analysis, calculus of variations, Sturm-Liouville theory, special functions,

PHYSICS

Fourier transforms, complex integration. Prerequisite: 115 and Mathematics 202. M W 10-11:15. Mr Steinberg.

- 234b *Electromagnetic Theory (E III)*. The laws of electricity and magnetism; introduction to Maxwell's equations; electromagnetic waves. Prerequisite: 214b and Mathematics 202. Lec. M T W 3. Mr Steinberg.
- [236a *Optics and Spectroscopy*. Geometrical and physical optics, spectra and their origin, the vector model, spectroscopes. Two lectures and one three-hour laboratory period. Prerequisite: 121a. Lec. M W 3; lab. T 3. Mr Hawkins.]
- 240b *Mechanics II*. Lagrangian and Hamiltonian methods, waves in a string, continuous media. Prerequisite: 220b and 230a. M T W 11. Mr Spees.
- 301a, 301b *Special Studies*. By permission of the Department for senior majors who have had four semester courses in intermediate physics. Members of the Department.
- 311a, b *The Teaching of Physics*. A one- or two-semester course for prospective teachers of secondary school physics. By permission of the instructor. Hours to be arranged. Mr Rice.
- 321a, b *Advanced Laboratory (MP II)*. Selected experiments in atomic, nuclear, and solid state physics. Prerequisite: 221b and 224a. Six hours to be arranged. Mr Rice.
- 340a *Introduction to Quantum Mechanics (MP III)*. The formal structure of nonrelativistic quantum mechanics, with solution of some simple problems and an introduction to approximation methods. Prerequisite: 240b. M T W 9. Mr Hawkins.
- 341b *Theoretical Modern Physics (MP IV)*. Topics in atomic, molecular, solid state, and nuclear physics, utilizing when possible the theoretical framework developed in 340a. Prerequisite: 340a. M T W 9. Mr Hawkins.
- [344a *Electrodynamics (E IV)*. Electromagnetic waves, special relativity and Maxwell's equations, radiation by a point charge. Prerequisite: 234b.]
- [347a, 347b *Atomic and Molecular Spectra*. Theory and experiments including applications to other sciences. By permission of the instructor. One lecture and two three-hour laboratory periods.]
- [348a *Thermophysics*. Laws of heat and thermodynamics, kinetic theory of gases, introduction to statistical mechanics. Prerequisite: 240b. W Th F 2. Mr Spees.]

PHYSICS

See also the Intercollegiate Courses in the History of Science. p. 56.

Adviser for secondary school teaching: Mr Rice.

GRADUATE

Adviser: Mr Hawkins.

450, 450a, 450b *Research and Thesis. May be taken for double credit. Members of the Department.*

451a, 451b Special topics in such fields as physical optics, electricity and magnetism, statistical mechanics, plasma physics, solid state physics, and low-temperature physics. Members of the Department.

452a, 452b Selected problems assigned for investigation, experimental work, and discussion. Members of the Department.

453a, 453b *Principles of Mathematical Physics.*

[459a, 459b *Structure of Large Molecules.* Physics, chemistry, and geometry of biologically active molecules.]

THE MAJOR

Adviser: Mr Spees.

Based on 115, or 111a, b and 120a, or Physical Science 193 and 120a.

Requirements: Ten semester courses, including the following: 121a, 214b, 220b, 221b, 224a, 230a, 234b, 240b or 236a; Mathematics 202a or b.

Two examinations. One in Introductory Classical and Atomic Physics and one in one of the three other fields listed below. Each examination may be written, or oral, or both.

Fields: Introductory Classical and Atomic Physics.

Electricity and Light.

Mechanics and Methods of Mathematical Physics.

Experimental Physics.

Each student is also expected to receive instruction in shop techniques in a two-hour period for one semester, and to participate in a journal club during the senior year. Suggested Mathematics courses include: 204b, 203a or b, 222a.

PHYSICS

HONORS

Director: Mr Josephs.

Basis: 115.

Requirements: in addition to the courses required for the major, students must take 450 or 450a or 450b; 452a or 452b is also recommended.

Three examinations. One examination in Introductory Classical and Atomic Physics; one in Experimental or Mathematical Physics; and one in a field of specialization. Each examination may be written, or oral, or both.

PSYCHOLOGY

PROFESSOR:	**ELSA MARGAREETA SIIPOLA, PH.D.
ASSOCIATE PROFESSORS:	DILMAN JOHN DOLAND, PH.D., <i>Chairman</i> JOHN CAMERON HAY, PH.D. †BARBARA STEWART MUSGRAVE, PH.D. ROBERT TEGHTSOONIAN, PH.D., <i>Director of Child Study</i>
ASSISTANT PROFESSORS:	J. DIEDRICK SNOEK, PH.D. MARTHA TEGHTSOONIAN, PH.D. FRANCES C. VOLKMANN, PH.D.
LECTURERS:	GRACE J. CRAIG, PH.D. ¹PAUL HAROLD SETON, A.B., M.D. ²MARY K. WEIGAND, PH.D.
RESEARCH ASSOCIATE:	JEAN CARL COHEN, PH.D.

Unless otherwise indicated, 101a is prerequisite for every further course.

Courses listed under Section A count toward the science requirement.

Students who plan to enter social work should consult their major advisers regarding desirable courses.

- 101a *Introduction to General Psychology.* A survey with emphasis on fundamental principles of human behavior and personality. Two lectures and one two-hour demonstration. M W 11, 12, T 11-12:50; M W 2, 3, T 2-3:50; T W 11, 12, Th 11-12:50; T W 2, 3, Th 2-3:50; Th F 2, 3, W 2-3:50. Miss Siipola (*Director*), Mr Teghtsoonian, Mrs Volkmann, Mrs Craig, Mr Snoek.

A. Laboratory Courses

- 102a *Introduction to Experimental Psychology.* Application of the experimental method to problems in psychology. Basic experiments in perception, motivation, learning, thinking. Lecture and laboratory, two two-hour periods. M W 9-10:50; M W 11-12:50; T Th 11-12:50. Mr Hay (*Director*), Mrs Teghtsoonian.
- 102b A repetition of 102a. M W 9-10:50; M W 11-12:50; M W 2-3:50; M W 4-5:50; T Th 9-10:50; T Th 11-12:50; T Th 2-3:50; T Th 4-5:50. Mr Teghtsoonian (*Director*), Mr Hay, Mrs Teghtsoonian, Mrs Volkmann.
- [201a *Comparative Psychology.* Experimental study of animal behavior, with emphasis on discrimination, motivation, and modifiability. Prerequisite: 101b, or 102a or b. Th F 3-4:50.]

PSYCHOLOGY

- 201b A repetition of 201a. M 3-4:50, T 3. Mr Hay.
- 202a *Experimental Psychology: Visual Perception.* The study of factors influencing the perception of color, space, and motion, with special attention to the influence of learning and motivation. Prerequisite: 101b, or 102a or b. M T 3-4:50. Mr Hay.
- 203b *Experimental Psychology: Social Behavior.* The experimental investigation of factors influencing perception, attitudes, and performance in social situations. Prerequisite: 101b, or 102a or b. Th S 10-10:50, F 10-11:50. Mr Snoek.
- 204b *Experimental Psychology: Human Learning.* The study of conditions influencing the processes of learning and memory; explanations of these processes in terms of current theories of learning. Prerequisite: 101b, or 102a or b. T Th 3-4:50. Mr Teghtsoonian.
- 205a *Physiological Psychology.* The neural foundations of human and animal behavior. Emphasis will be placed on sensory and motor systems, and on the physiological bases of emotion, motivation, and learning. Prerequisite: 101b, or 102a or b. Th F 10-11:50. Mrs Volkmann.

B. Developmental and Child Psychology

- [222a *Educational Psychology.* The educational process considered from the point of view of psychology. The application of psychological principles of development, motivation, and learning to contemporary educational problems. M T W 12. Mrs Musgrave.]
- 222b A repetition of 222a. No prerequisite. M T W 12. Mrs Weigand.
- 223a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Th F S 9. Mrs Craig.
- 223b A repetition of 223a. M T W 9. Mrs Craig.
- 224b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. M T W 3. Mrs Weigand.
- 344b *Child Psychology (seminar).* Selected problems, reports, and discussion. Prerequisite: 223a or b. Th 7:30. Mrs Craig.

C. Personality and Clinical Psychology

- 227a *Psychology of Personality*. Study of the psychological organization of the adult personality, with emphasis on individuality rather than generalized human nature. Basic concepts and theories of psychodynamics and of the development of adult personality-structure. Th 11-12:50, F 12. Miss Siipola.
- 236b *Abnormal Psychology*. A study of neuroses, psychoses, and other personality disorders. Recent clinical and experimental findings will be stressed, particularly as they relate to major conceptions of mental illness. Not open to freshmen. M T W 2. Mr Doland.
- 238a *Clinical Psychology*. A survey of methods and procedures used in a clinical setting, including appraisal of capacity, personality evaluation, and therapy. T 10-10:50, W 10-11:50, M 10 at the option of the instructor. Mr Doland.
- 238b *Mental Tests in Clinical Practice*. Supervised practice in administering, scoring, and interpreting standard clinical tests, with major emphasis on the testing of intelligence. A minimum of fifteen hours of practice outside the laboratory. Not open to freshmen. T 10, W 10-11:50. Mr Doland.
- [346b *Seminar in Advanced Abnormal Psychology*.]
- [347a *Psychology of Personality* (seminar). Intensive study of depth psychology and of projective techniques of investigating personality. Prerequisite: 227a. Th 11-12:50. Miss Siipola.]
- 348a *Clinical Study of Children* (seminar). Clinical approaches to the understanding and treatment of the individual child. Areas include: emotional problems of the normal child as well as serious psychopathology; evaluative and therapeutic procedures utilized with children. Some observation in a clinical setting. Prerequisite: at least one of the following, 223a or b, 227a, or 238a. M 3-4:50. Mr Doland.

D. Social Psychology

- 225b *Social Psychology*. The study of social behavior considered from a psychological point of view. Topics include: socialization, prejudice, conformity, leadership, and the dynamics of group action. M T W 9. Mr Snoek.
- [229b *Psychology of Language*. A psychological interpretation of language based on empirical research. Topics include the role of grammar in thinking, indices of literary style, word association phenomena, meaning and metaphor, communication theories. Th 10, F 10-11:50. Mrs Musgrave.]

PSYCHOLOGY

- 235a *Psychology of Attitudes and Opinions*. An investigation of factors influencing the formation and change of social judgments. The application of basic research methods of social psychology to this area. Topics include: communication, social conformity, public opinion, reference groups. M T W 9. Mr Snoek.
- [239a *Industrial Social Psychology*. Analysis of psychological factors relevant to behavior and experience on the job. Topics include: occupational choice, selection and evaluation, satisfaction and performance at work, organizational behavior. Mr Snoek.]
- 345b *Social Psychology* (seminar). Intensive study of group dynamics. Methods, theories, and problems. Reports and discussion. Prerequisite: 225b or permission of the instructor. M 7:30. Mr Snoek.
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- 230a *Theories and Systems in Psychology*. A discussion of some central problems in psychology, including their historical background, theoretical and systematic approaches, and contemporary formulations. M 7:30 or W 7:30. Mrs Teghtsoonian.
- 231a *Statistical Methods in Psychology*. Elementary descriptive and inferential statistics as applied to psychological problems. M T W 12. Mr Teghtsoonian.
- 330a, 330b *Advanced Theoretical Psychology* (seminar). Critical study of current theories and examination of theoretical issues involved in selected problems. *1st semester*: An Approach to Psychoanalytic Theory. Open to students who have had 227b and have had, or are taking, 230a. W 7:30. Dr Seton. *2nd semester*: Selected Aspects of Contemporary Behavior Theory. Primary emphasis will be on the field of learning. W 7:30. Mrs Volkmann.
- [340b Synoptic Course. Th 11-12:50, F 12 at the option of the instructor. Miss Siipola.]
- 341a, 341b Special Studies. By permission of the Department for qualified junior and senior majors.

GRADUATE

Adviser: Mr Snoek.

450a, 450b *Seminar in Current Psychological Problems*.

PSYCHOLOGY

451a, 451b *Advanced Studies*. In any of the following areas: Perception, Learning, Personality, Psychophysiology, Developmental, Social, or Clinical Psychology.

452a, 452b Research and Thesis. (*May be taken for double credit.*)

THE MAJOR

Advisers: Members of the Department.

Based on 101a and one other semester course. A student exempted from 101a need take only one semester course.

Requirements: eight semester courses, six in psychology, including 101b, or 102a or b, and 230a; and two additional courses in psychology or appropriate courses in other departments.

Two examinations: one area selected from within Field I, and one area selected from within Field II.

Field I: Basic Psychological Processes:

1. Perception.
2. Learning.
3. Motivation.
4. Psychophysiology.

Field II: Individual and Social Behavior and Development.

1. Developmental Psychology.
2. Personality.
3. Clinical Psychology.
4. Social Psychology.

HONORS

Director: Mr Teghtsoonian.

Basis: 101b or 102a or b.

Requirements: eight semester courses; 230a and 231a, and six additional semester courses in the major field, at least four being in psychology; and a long paper equivalent in credit to two semester courses.

Three examinations: two field examinations; a third, special honors, examination.

RELIGION & BIBLICAL LITERATURE

PROFESSOR:	RICHARD PRESTON UNSWORTH, B.D., TH.M.
ASSOCIATE PROFESSORS:	STEN HAROLD STENSON, PH.D. BRUCE THEODORE DAHLBERG, B.D., PH.D., <i>Chairman</i> JOCHANAN H. A. WIJNHOVEN, PH.D.
ASSISTANT PROFESSOR:	THOMAS SIEGER DERR, JR., A.B., B.D.
INSTRUCTORS:	WILLIAM C. SHEPHERD, M.A. W. RANDALL HUNTSBERRY, A.B.
ADA HOWE KENT	
LECTURER:	A. K. SARAN, M.A.

- 140a *Introduction to the Study of Religion, I.* Teachings of Judaism, Roman Catholicism, Protestantism, and Eastern Orthodoxy. Lec. Th 10. Dis. M T 11, 12, T W 2, F 10-11:50. Open only to freshmen and sophomores. Members of the Department. Mr Derr (*Director*).
- 140b *Introduction to the Study of Religion, II.* Contemporary interpretations of man and his destiny by various exponents and critics of religion: Maritain, Niebuhr, Tillich, Buber, and others. Lec. Th 10. Dis. M T 11, 12, T W 2, Th F 2, F 10-11:50. Open only to freshmen and sophomores. Members of the Department. Mr Derr (*Director*).
- 185 *Biblical Hebrew.* Introduction to the Hebrew language. Elements of grammar with readings from narratives of the Old Testament. Offered in alternate years. Alternates with 285a and b. W 7:30. Mr Wijnhoven.
- 210a *Introduction to the Bible, I.* The religion of ancient Israel: its history, law and myth. Prophetic faith. The Wisdom tradition. Apocalyptic. The Psalter. M T W 10, 12; Th 11-12:50, F 12. Mr Dahlberg, Mr Wijnhoven.
- 210b *Introduction to the Bible, II.* The New Testament portrayal of the life and work of Jesus Christ. Rise of the Christian Church. The letters of Paul and others. Relevance of the Dead Sea Scrolls. Prerequisite: 210a. M T W 12; Th 11-12:50, F 12. Mr Dahlberg.
- [225a *Life and Teaching of Paul.* Paul's letters as the earliest Christian theological writing. His concept of the Resurrection, justification, freedom and law, *agapé*, and other basic themes. His vocation as an apostle.]
- 230a *History of Christian Thought through the Middle Ages.* The early church fathers, Augustine, and early medieval theology. M T W 10. Mr Shepherd.

RELIGION & BIBLICAL LITERATURE

- 230b *History of Christian Thought since the Middle Ages.* Thomas Aquinas. The formative period in Protestantism. Development of Catholic thought. Key figures and movements to the present. M T W 10. Mr Shepherd.
- 235a *Jewish Thought, I.* Biblical origins. Encounter with the Hellenistic world; split with Christianity. Formation of Talmudic Judaism. Jewish literature, philosophy, and mysticism under Islam and in Christian Europe. Impact of the Renaissance and Reformation. The Sabbathian movement. M T W 9. Mr Wijnhoven.
- 235b *Jewish Thought, II.* Moses Mendelsohn; enlightenment and Judaism. Hasidism. The Jewish emancipation and liberalism. The rise of Reform. Zionism and modern anti-Semitism. Rosenzweig, Buber, and contemporary trends in Judaism. M T W 9. Mr Wijnhoven.
- 237b *Religion in America.* Religious thought and institutions, and their influence on American culture. Major denominations and thinkers from the seventeenth century to the present. M T W 12. Mr Derr.
- 240a *Contemporary Religious Thought, I.* Chief movements and issues in Christian theology during the nineteenth and early twentieth centuries. Alternative perspectives in contemporary Protestant and Roman Catholic thought. Readings selected from Barth, Rahner, Bultmann, Teilhard de Chardin, Moltmann, Pannenberg and others. M T W 2. Mr Shepherd.
- 240b *Contemporary Religious Thought, II.* Phenomenology in contemporary religious thought. A study of subject, object, logos, and transcendence in religious consciousness. Readings selected from the work of such authors as Husserl, Heidegger, Jaspers, Marcel, Merleau-Ponty, Scheler, James, and others. Th 11-12:50, F 12. Mr Stenson.
- 250a *Religion and Social Responsibility, I.* Religion as a basis for social ethics. Natural law and situational morality. Ethical problems in the areas of love, marriage, divorce, population growth, medical practice and research, and race relations. M T W 3. Mr Derr.
- 250b *Religion and Social Responsibility, II.* The bearing of religious ethics on the understanding of the state, the economic order, and international affairs. Power, violence, and vengeance; revolution and order; civil disobedience; pacifism and the just war; property and poverty; religious liberty; religion and communism. M T W 3. Mr Derr.
- 260a *Philosophy of Religion, I.* Representative examples of historical philosophies of religion. Emphasis on Kant, Hegel, Kierkegaard, and Nietzsche. The re-

RELIGION & BIBLICAL LITERATURE

lation of their thought to traditional problems in philosophy of religion. Th F 8:40-9:50. Mr Stenson.

- 260b *Philosophy of Religion, II.* Contemporary problems and proposed solutions in philosophy of religion. Emphasis on philosophical analysis of religious language and myth. The nature of religious meaning, evidence, truth, ambiguity, paradox, etc. Th F 8:40-9:50. Mr Stenson.
- [270a *Hinduism and Buddhism.* Their philosophical and popular teachings about the divine, the world, and man in the periods of greatest influence in India, China, and Japan. Ritual observances, and methods of inner personal development. Modern thinkers and movements.]
- 272a *Comparative Religion.* Historic religious symbol-systems and their implications for man's relation to himself and reality. Examples from primitive religion, ancient Greece and the Near East, India, China, and Japan. M T 8:40-9:50, W 9 at the option of the instructor. Mr Huntsberry.
- 274a *Man and Society in Hinduism.* The four ends of man. Action and right knowledge. Social organization and control; family, the *varnas*, *jati*, and caste; government. Social functions of art. Th F 8:40-9:50. Mr Saran.
- [275a *Islam.* The formative period: Muhammed, the Quran, the law. The medieval mystics and philosophers. The role of Islam in the Middle East, among primitive cultures, and in India. Muslim reform and tradition in the modern world.]
- 276b *Themes in Japanese Religion.* Analysis of Japanese religious currents, their interaction, their tensions. The relation between religion and periods of socio-cultural crisis. The Chinese background. Primitive Shinto and the Buddhho-Confucian impact. The Kamakura Reformation. Bushido. Modernization and religion. M T 8:40-9:50, W 9 at the option of the instructor. Mr Huntsberry.
- 278a *Religion and Society.* Relation of religious organization and beliefs to social and cultural factors. Major sociological and anthropological interpretations of magic and religion. Selected problems in primitive and higher religions. (Same as SOCIOLOGY AND ANTHROPOLOGY 225a) Th 11-12:50, F 12. Mr Saran.
- [285a *Hebrew Religious Texts.* Readings with introduction and discussion of Hebrew texts from the Prophets, the Dead Sea Scrolls, and the Mishnah. Prerequisite: 215 or permission of the instructor. Alternates with 215. W 7:30. Mr Wijnhoven.]

RELIGION & BIBLICAL LITERATURE

- [285b *Hebrew Religious Texts*. Selections from medieval Jewish philosophy, mysticism, and poetry (Maimonides, Judah ha-Levi, and others). Prerequisite: 215 or permission of the instructor. Alternates with 215. W 7:30. Mr Wijnhoven.]
- 301, 301a, 301b Special Studies. By permission of the Department for senior majors who have had four semester courses above the introductory level.
- 310b *Old Testament Theology (seminar)*. A critical examination of ancient Hebrew conceptions of the divine-human relation seen in the literature of history, myth, and ritual in the Old Testament, with particular focus on one of the following works: Genesis, Isaiah 40-55, or Job. In 1967-68: Genesis. Th 4-5:50. Mr Dahlberg.
- [320a *Jesus in the Gospels (seminar)*. A study of his teaching and mission based on the first three gospels. Prerequisite: 210b or permission of the instructor. Alternates with 225a.]
- 327b *Greek New Testament*. Prerequisite: Greek 111, or the equivalent. Hours to be arranged. Mr Wijnhoven
- [330b *Historical Theology (seminar)*. A study of selected men and movements in Christian history.]
- [340a *Problems in Theology (seminar)*. A contemporary restatement of man as creature, man as sinner, the mystery of his suffering, and images for the work of salvation in Christian thought.]
- 350a *Christian Ethics (seminar)*. A study of some methods of making ethical judgments consistent with Christian faith and tradition. Special consideration will be given to problems of relativism in contemporary Christian ethical proposals. Th 3-4:50. Mr Unsworth.
- 360a *Existentialism and Theology (seminar)*. Existentialist themes in religious thought. Readings selected from early and contemporary existentialists and theologians. By permission of the instructor. Th 7:30. Mr Stenson.
- RELIGION AND SOCIOLOGY 379b *Seminar in the Challenge of Secularism with Reference to India*. The contexts of secularism: western and eastern. Social, political, and economic sources of secularism. The influence of Marxism, neo-Hindu reform, technology, nationalism, and the secular state. W 7:30. Mr Saran.

GRADUATE

Adviser: Mr Dahlberg.

RELIGION & BIBLICAL LITERATURE

[400b *The Grounds for Theological Judgment*. The distinction between theology and other disciplines; its relation to Biblical hermeneutics; the interrelationships between method and content in theological construction.]

480a, 480b Advanced Studies.

485, 485a, 485b Research and Thesis. *May be taken for double credit.*

THE MAJOR

Advisers: Mr Stenson, Mr Dahlberg, Mr Wijnhoven, Mr Derr.

Based on 140a, b; or 210a, b; or an alternative basis of two semester courses by permission of the Department.

Requirements: Eight semester courses in addition to the basis, including 210a and b, and two semesters in the origins and development of western religious thought.

Courses in related departments may be included in a major program of eight courses only with the approval of the departmental adviser.

Examinations: A general examination in the major, and a special examination in one of the fields listed below. Preparation for the special examination will include at least two semester courses in a given field, in addition to independent reading.

Fields: Biblical Studies: 210a, b; 225a; 285a; 310b; 320a; 327b.

Judaica: 235a, b; 285a, b.

History of Christian Thought: 230a, b; 237b; 240a; 330b.

Asian Religions: 270a, 274a, 275a, 276b.

Ethics: 250a, b; 350a.

Contemporary Theology: 240a; 340a; 360a.

Philosophy of Religion: 240b, 260a, b; 360a.

Textual Studies: 185; 285a, b; 327b.

HONORS

Director: Mr Stenson.

Basis: 140a, b, or 210a, b. An alternative basis of two semester courses requires departmental approval.

Requirements: Eight semester courses or units in addition to the basis, including 210a, b; two semester courses in the origins and development of western religious thought; four additional semester courses in Religion or related fields; and a long paper equivalent to two semester courses in the semester in which it is written (normally the first semester of the senior year). Work in related departments included in the Religion honors program must be approved by the Director.

RELIGION & BIBLICAL LITERATURE

Units will be conducted by means of regular conferences and special reading, and will often be planned in conjunction with existing courses.

Examinations: a general examination in the major; a special examination in the field of concentration and an oral examination on the senior essay as it relates to the major.

Preparation for the first two examinations is similar to that prescribed for all major students.

Units

First Semester

Religion, Ethics, and Society. Mr Derr.

[*History of Religions.* Mr Huntsberry.]

[*History of Christian Thought.* Mr Shepherd.]

Judaism. Mr Wijnhoven.

Second Semester

Biblical Studies. Mr Dahlberg.

Philosophy of Religion. Mr Stenson.

[*Contemporary Religious Thought.*]

RUSSIAN LANGUAGE & LITERATURE

PROFESSOR:	HELEN MUCHNIC, PH.D.
ASSISTANT PROFESSORS:	IGOR ZELLJADT, M.A., CAND.PHIL., <i>Chairman</i> <i>and Director of Language Studies</i> MARIA BANERJEE, PH.D.
ASSISTANT:	ELISABETH SCHOUVALOFF, A.B.
LECTURERS:	NATALIJA KUPRIJANOW, LEHRERDIPLOM HÉLÈNE PALÉOLOGUE, LIC. ÈS L., M.A.

A. Language

- 101 *Introductory Course.* Three class hours and two hours of conversation and laboratory. M T W 12, 3; M T 11, W 12, and two hours to be arranged. Members of the Department.
- 111D *Introductory Course.* An intensive course. Five class hours and two laboratory hours. M T W Th F 2 and two hours to be arranged. *Three semesters' credit.* Mrs Kuprijanow.
- 121 *Introductory Course.* Selections from Russian prose and poetry. General grammar review. Prerequisite: 101 or the equivalent. M T 11, W 12; M T W 12, and one hour to be arranged. Members of the Department.
- 231 *Intermediate Course.* Readings and discussion of texts taken from classical and Soviet literature, as well as current journals. Intensive practice in writing. Prerequisite: 121 or 111D with the permission of the instructor. M T W 12; W Th F 3. Mrs Kuprijanow.
- 338a *Literary Analysis of Selected Works of Russian Literature.* Prerequisite: 231 or 233. Hours to be arranged. Miss Paléologue.
- 338b *Literary Analysis of Selected Works of Russian Literature.* Prerequisite: 338a. Hours to be arranged. Miss Paléologue.
- 343b *Seminar in the History of Slavic Languages.* A survey of the origin and development of the Slavic languages, their sounds, vocabulary, and grammatical forms from the beginning to the present. Lectures and analysis of selected, illustrative texts. Prerequisite: 231 or the equivalent, or permission of the instructor. Hours to be arranged. Mr Zelljadt.

RUSSIAN LANGUAGE & LITERATURE

B. Literature

- 126a *History of Russian Literature*. From the beginnings to Pushkin. In translation. M T W 10. Mrs Banerjee.
- 126b *History of Russian Literature*. From Pushkin to Turgenev. In translation. Prerequisite: 126a. M T W 10. Mrs Banerjee.
- 233 *Literature of the Nineteenth Century*. Development of Russian realism. Study of some typical works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov, with discussion of important trends in social and aesthetic ideas which they exemplify. In Russian. By permission of the instructor. Prerequisite: 231, or the equivalent. M 7:30. Mr Zelljadt.
- 235a *Tolstoy*. In translation. M 3-4:50, T 3-3:50. Miss Muchnic.
- 235b *Dostoevsky*. In translation. M 3-4:50, T 3-3:50. Miss Muchnic.
- 236a *Russian Drama*. In translation. Study of the masterpieces of the Russian theatre from the beginnings to recent years, with emphasis on Gogol, Ostrovsky, and Chekhov. M T W 2. Mrs Banerjee.
- 301, 301a, 301b *Special Studies in Language or Literature*. By permission of the Department for senior majors who have had four semester courses above the introductory level.
- 337 *Russian Literature from 1880 to 1917: Modernism, Decadence, Symbolism*. In translation. Prerequisite: 126b or one intermediate semester course in Russian literature. M 11-12:50, T 11-11:50. Mrs Banerjee.
- 340b *History of Russian Thought*. In translation. Prerequisites: History 233a and 247b and one intermediate semester course in Russian literature. Hours to be arranged. Mrs Banerjee.
- 342b *Seminar in Soviet Russian Literature*. In translation. Poems, plays, and novels of selected Soviet authors considered as works of literary art and as illustrations of the social, economic, and political conditions of the period. Prerequisite: 126b or one intermediate semester course in Russian literature. T 4-5:50. Miss Muchnic.
- 346a *Pushkin and His Age (seminar)*. Conducted in English; reading in Russian. Prerequisite: three years of Russian or the equivalent, and by permission of the instructor. Hours to be arranged. Miss Muchnic.
- 450, 450a, 450b Research and Thesis.
- 451, 451a, 451b Advanced Studies. Arranged individually.
- Adviser of graduate study: Miss Muchnic.

RUSSIAN LANGUAGE & LITERATURE

THE MAJORS

PLAN A: RUSSIAN LITERATURE

Adviser: Mrs Banerjee.

Based on 111D or 121.

Requirements: Nine semester courses, including the following: 126a, 126b, 233, 235a, 235b, 340b, History 233a, 247b.

Two examinations: one in language (to be taken in the junior year), the other in one of the following fields:

Literature: 1800-1880.

1880-1917.

Fiction.

Main currents in relation to European and American literature.

PLAN B: RUSSIAN CIVILIZATION

Adviser: Mr Zelljadt.

Based on 101 and History 102.

Requirements: Ten semester courses, including the following: 121, 126a, 126b, 235a, 235b, 340b; Economics 209a or Government 221a or 322b; and History 233a, 247b.

Two examinations: one in Russian literature to be selected from the fields listed above; the other in one of the following fields: History, Government or Economics.

HONORS

Director: Miss Muchnic.

Prerequisites: 111D or 121, 126a, 126b.

Requirements: Ten semester courses including the following: 233, 235a, 235b; History 233a, 247b; and at least four semester courses in units and seminars in the Department or in other departments within the area of concentration; a long paper to count for one semester course to be written in the first semester.

Four examinations: (1) the field examination in language, to be taken in the junior year; (2) a comprehensive examination in Russian literature; (3) an examination on Russian history; and (4) another in a departmental field unrelated to the student's thesis topic.

For students who choose honors in Russian civilization, an appropriate course in government or economics will be substituted for Russian 233 and the examination in language will be omitted.

SOCIOLOGY & ANTHROPOLOGY

PROFESSORS:	†NEAL BREAULE DENOOD, PH.D. †ELY CHINOY, PH.D. PETER ISAAC ROSE, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	MYRON GLAZER, PH.D. ELIZABETH ERICKSON HOPKINS, M.A.
INSTRUCTOR:	LAWRENCE ROSEN, A.M.
LECTURERS:	¹ BEAU FLY JONES, M.A. MARY K. KEELEY, M.S. GAVIN GEORGE N. MACKENZIE, A.M.
ADA HOWE KENT	
LECTURER:	A. K. SARAN, M.A.

The prerequisite for all courses is 101a or 101b, or permission of the instructor, unless otherwise indicated.

Students planning to major or to enter the honors program in the department are advised to take courses in one or more of the following fields: economics, government, history, philosophy, and psychology.

Students who plan to enter the field of social work should consult Miss Keeley regarding desirable courses.

- 101a *Introduction to Sociology and Anthropology.* Traditional and contemporary perspectives on society, culture, and human behavior. Major institutions and forms of social organization: family, classes and ethnic groups, bureaucracy, religion, community. Principal emphasis on American society. Lec. M T 10. Sect. W 10, 11. Members of the Department. Mr Rose (*Director*).
- 101b Repetition of 101a. M T W 10. Mr Glazer.
- 102b *Industrial Society.* Comparative analysis of culture, social structure, and institutions in industrial societies, with material drawn chiefly from Great Britain, the Soviet Union, and the United States. The role of education, science, and the mass media. Problems of work and leisure. M T W 12. Mr Mackenzie.

GENERAL COURSES

- 201a *Methods of Social Research.* The logic and methods of social research and research techniques; their application to a specific project of current interest.

SOCIOLOGY & ANTHROPOLOGY

Limited to twenty students. M 7:30 and one hour to be arranged. Mr Rose.

- 214b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. M T W 9. Mr Mair. [Economics]
- 301a, 301b *Special Studies.* By permission of the Department for senior majors in the department.
- 303b *Seminar in Structure and Change in Modern Society.* Selected problems in the analysis of social stratification, elites, bureaucracy, and mass society. T 4-5:50. Mr Mackenzie.
- 310a *Selected Sociological Theories.* Critical analysis and application of sociological theories focused chiefly on the work of Durkheim, Simmel, and Weber. Not open to sophomores. M T W 3. Mr Mackenzie.
- 310b *Problems of Scope and Method.* Theory and research in contemporary sociology and anthropology. For seniors majoring in the department. Th 4-5:50. Mr Rose.
- 401b *Contemporary Sociological Theory.* Selected topics: functionalism, social systems, role theory, reference groups, equilibrium and conflict, the place of values in sociology. Open to undergraduates by permission of the instructor. M 7:30. Mr. Mackenzie.

AMERICAN SOCIETY

- 210a *The City.* The nature and origins of cities. Urbanization and metropolitan growth. Characteristics of American cities and their problems. Demography and urban ecology. City planning and renewal. M T W 9. Mr Rosen.
- 211a *Social Disorganization.* The concepts of social disorganization, deviance, pathology, social problem, and conflict. Selected topics: crime, delinquency, drug use and addiction, and family problems. M T W 12. Mr Rosen.
- 211b *Social Disorganization.* Theories of deviance applied to the study of conformity, corruption, and ethical ambiguity in government, business, unions, and the professions. M T W 12. Mr Glazer.

SOCIOLOGY & ANTHROPOLOGY

- 212a *Class Structure in American Society.* Analysis of the American class system, with particular emphasis on the nature and role of the middle class. The social and political consequences of economic stratification, status systems, and social mobility. M T W 12. Mr Mackenzie.
- 213b *Minorities in America.* Social organization of a multi-racial and ethnically diverse society. Cultural and political problems in racial and ethnic relations. Racial nationalism. Internal organization of minorities in different settings. Th 11-12:50, F 12. Mr Rose.
- 216a *Social Work in the American Community.* Development and theory of modern social services; the basic processes: casework, group work, and community organization. Prerequisite: the introductory course in economics, psychology, or sociology, or a course in government. Th 10, F 10-11:50. Miss Keeley.
- 304a *Seminar in Social Disorganization.* Theories of social disorganization and their application to selected problems of crime and delinquency and family disorganization. Value systems and deviant subcultures. W 7:30. Mrs Jones.
- 305a *Seminar in Subcultures and Social Movements.* Topic for 1967-68: Negro Protest in America. T 4-5:50. Mr Rose.
- [306b *Seminar in Social Planning.* Goals, strategies, powers, and obstacles in planning for health, housing, education, urban renewal, and the elimination of poverty. Methods of measuring needs and assessing the adequacy of planned programs. F 10-11:50.]
- [HISTORY AND SOCIAL SCIENCE 395b. *Interdepartmental Seminar in Economics, Government, History, and Sociology.*]

COMPARATIVE SOCIAL STRUCTURE

- 130b *Cultural Anthropology.* The conceptual and methodological premises of anthropology. The nature of culture. Factors in uniformity and variation in economic, political, social, and ideological systems. Problems of integration and change. No prerequisite. Th 3-4:50, F 3. Mrs Hopkins.
- 221b *Modernization.* Demographic, economic, social, and political transformations and their consequences in societies undergoing modernization. Implications for culture and personality. Theories of social change and empirical techniques for analyzing change. Case studies from Asia, the Middle East and Africa. Th 10, F 10-11:50. Mrs Hopkins.

SOCIOLOGY & ANTHROPOLOGY

- 222b *Revolution and Reaction in Latin America.* Intensive case studies focused on Guatemala, the Dominican Republic and Cuba. Influence of the United States and other countries on patterns of development. M T 2. Mr Glazer.
- 223a *Contemporary Latin American Society.* Social structure and social change in Latin America. The role of elites, the middle class, workers, peasants, and intellectuals; institutions affecting the role of these groups and their relations to each other. Open to students who have passed a course in the history of Latin America. M T 1:40-2:50. Mr Glazer.
- 224b *Family and Society.* Structure and function of the family in various societies. Premarital sex behavior, courtship, marriage, and family life. Variations in social classes and ethnic groups, with special emphasis on American and British studies. M T W 3. Mr Rosen.
- 225a *Religion and Society.* Relation of religious organization and beliefs to social and cultural factors. Major sociological and anthropological interpretations of magic and religion. Selected problems in primitive and higher religions. Th 11-12:50, F 12. Mr Saran.
- 229b *Indian Society and Culture.* The institutions and social structure of contemporary India. Family and kinship, the village, political organization, and education. Problems of change, national integration, modernization, and planning. Th F 8:40-9:50. Mr Saran.
- [230b *Ethnology of the Americas.* Survey of the major regional and cultural divisions of North and South America, with intensive analysis of tribes selected to illustrate the range of economic, political, and social institutions, and the relevance of ecological and historical factors. Th 10, F 10-11:50.]
- 231a *Ethnology of Africa.* Survey of the major regional and cultural divisions of sub-Saharan Africa, with intensive analysis of tribes selected to illustrate the range of economic, political, and social institutions, and the relevance of ecological and historical factors. Th 10, F 10-11:50. Mrs Hopkins.
- [232a *Folklore.* Traditional forms of folk expression (folktale, fairy tale, folksong, myths, legends, and proverbs) in their social and cultural setting. History and development of folklore analysis. Different approaches to folklore. Folklore in mass society. Children's culture as folklore.]
- 233a *Political Anthropology.* Survey of the major structural variations in pre-literate political systems. Theories of social control, the nature of law, state formation and expansion, and modern movements of protest. Principal emphasis on Sub-Saharan Africa. W 7:30. Mrs Hopkins.

SOCIOLOGY & ANTHROPOLOGY

235a *Cultural Evolution*. Physiological, social, and environmental foundations of culture. Cultural development from its initial appearance through the rise of primary forms of urbanization and state formation in the Near East. No prerequisite. Th 3-4:50, F 3. Mrs Hopkins.

[320b *Seminar in Culture and Society in the Middle East*. Selected aspects of culture and society in the Middle East in their traditional and contemporary contexts. By permission of the instructor.]

330b *Seminar on Culture Contact and Change*. The impact of European expansion on tribal societies: factors in the transformation of traditional institutions and values. W 7:30. Mrs Hopkins.

SOCIOLOGY AND RELIGION 379b *Seminar in the Challenge of Secularism, with Reference to India*. The contexts of secularism: western and eastern. Social, political, and economic sources of secularism. The influence of Marxism, Neo-Hindu reform, technology, nationalism, and the secular state. W 7:30. Mr Saran.

451a, 451b Special Studies in such subjects as advanced theory, social organization and disorganization, culture contacts, problems of scientific methodology.

THE MAJOR

Advisers: Mr Chinoy, Mr Glazer, Mrs Hopkins, Mr Rose.

Based on: 101a or 101b and either 102b or 130b.

Requirements: Ten semester courses including 310a, 310b and at least six other semester courses in the Department: a minimum of four to be taken in the field of the student's optional examination, and at least one in the other optional field; the remaining two may be taken in the Department or in related departments.

Two examinations: One in General Sociology and another in either American Society or Comparative Social Structure. Students electing the examination in Comparative Social Structure may concentrate their work in Anthropology (130b, 230b, 231a, 232a, 235a, 330b).

Fields: General Sociology
American Society
Comparative Social Structure

Majors may spend the junior year abroad if they meet the College requirements. Students planning to major in the Department and spend the junior year abroad should take at least one, preferably two, semester courses in the major during the sophomore year.

SOCIOLOGY & ANTHROPOLOGY

Adviser of graduate study: Mr Glazer.

HONORS

Director: Mr Rose.

Requirements: Eight semester courses, including 310a (preferably taken in the junior year), 401b, and at least six additional semester courses in the Department and in related fields; and a long paper counting for two semesters' credit in the first semester of the senior year.

Three examinations: The general examination, one of the regularly scheduled field examinations, and one special examination.

SPANISH AND PORTUGUESE LANGUAGES AND LITERATURES

See Hispanic Studies, p. 131.

THEATRE AND SPEECH

ASSOCIATE PROFESSORS:	DENTON M. SNYDER, M.A. WILLIAM EDWARD HATCH, M.A. CHARLOTTE H. FITCH, A.M., <i>Director of Speech</i> ROSALIND SHAFFER DEMILLE, M.A., <i>Director of Dance</i> JOHN GORDON FISHER, M.F.A., <i>Chairman</i>
ASSISTANT PROFESSOR:	EDWIN FELIEN, PH.D.
LECTURERS:	HELEN KRICH CHINYOY, PH.D. ² OLIVER WATERMAN LARKIN, A.M.
ARTIST IN RESIDENCE:	² EUGENIE LEONTOVICH
COSTUMER:	DOROTHY MYRICK RANDALL, M.A.

111a *Introduction to Theatre: The Elements of the Art.* Analysis of the form and the roles of participating artists in the performance of drama: the director, designer, actor, critic, playwright, and audience. Attendance required at selected out-of-town performances. M T W 10, W 11. Members of the Department. Mr Fisher (*Director*).

111b *Introduction to Theatre: The Dramatic Art.* Analysis of the dramatic method, including forms, styles, and genres of both literature and performance. Attendance required at selected out-of-town performances. Prerequisite: 111a. M T W 10, W 11. Members of the Department. Mr. Fisher (*Director*).

A. History, Literature, Criticism

211a *History of the Drama and Theatre.* The development of plays and theatres from Aeschylus to Shakespeare. Attendance required at selected out-of-town performances. M T W 2-2:50. Mrs Chinoy.

211b *History of the Drama and Theatre.* The development of plays and theatres from Corneille to Ibsen and Chekhov. Attendance required at selected out-of-town performances. M T W 2-2:50. Mrs Chinoy.

212a *Modern European Drama.* The plays, theatres, playwrights and performers of the twentieth century in Europe. Ibsen and Chekhov to World War II. Pirandello, Synge, Brecht, Giraudoux. Attendance required at selected out-of-town performances. M T W 9. Mr Felien.

THEATRE & SPEECH

- 212b *Modern European Drama*. Contemporary theatre in Europe from World War II to the present. Genet, Beckett, Ionesco, Pinter, Weiss. Attendance required at selected out-of-town performances. M T W 9. Mr Felien.
- 213b *American Theatre and Drama*. Evolution of an American style in theatre art and development of American drama, especially from 1914 to the present. O'Neill to Albee and the Off-off Broadway playwrights. M T W 12. Mrs Chinoy.
- 222a *Dance History*. Primitive, archaic, classic, medieval, renaissance, ballet, Spanish, ballroom, modern, contemporary, and *avante-garde* dances and dance forms as affiliate expressions of the temper and life of the cultures in which they were born. No performances. Th F 2-3:50. Mrs deMille and members of the Department.
- 222b *Introduction to Dance*. A survey investigating the scope and uses of dance as used in societies as an instrument for education, healing, and propaganda, and as a political weapon or religious adjunct. No performances. Th F 2-3:50. Mrs deMille and members of the Department.
- 271a *History and Theories of Acting*. An analysis of the major schools of acting, their history and development, with a comparison of theories and techniques. No performance required. Laboratory optional. M T W 2. Mr Snyder.
- 311a *Seminar in Theatre Criticism*. Professional playgoing; the grounds of theatrical judgment; selected theories and theorists dealing with dramatic literature and the theatre arts. Th 11-12:50. Mrs Chinoy.
- 312a *Masters of Theatre*. Seminar on major figures in drama. In 1967-68: Ibsen, Strindberg. Hours to be arranged. Mr Felien.
- 312b *Masters of Theatre*. Seminar on a major figure in drama. In 1967-68: Odets and the Theatre in the Thirties. Hours to be arranged. Mrs Chinoy.

B. Theory and Performance

- [122b *Improvisational Dance*. Experimental exercises in improvisation; individual and group studies in dynamics, rhythm, and design geared to making the dancer aware of and responsive to all the possibilities of movement. Th 11-12:50, plus three studio hours.]
- 221a, b *Dance Composition and Choreography*. A study of the theories, principles, and forms of dance composition and choreography, including work with solos, duets, trios, and groups. Styles ranging from the traditional and classic to

THEATRE & SPEECH

the modern and *avant-garde*. First semester: beginning composition. Second semester: choreography and production. Prerequisite for 221b: 221a. One hour of lecture, one hour of laboratory, four hours of studio. T 1:40-2:50, W 2-2:50. Studio hours to be arranged. Mrs deMille and members of the Department.

- 241a, b *Acting*. Exercises in concentration, imagination, and observation in the study of the actor's approach to a role. Prerequisite for 241b: 241a. M T 11-11:50, W 12 at the option of the instructor. Mr Snyder.
- 251a *Mounting the Play*. A study of general structural features of theatres that bear on the problems of mounting plays and the fundamental techniques and methods of production. Lec. M T 2-2:50; lab. W 1:40-2:50. Mr Hatch.
- 252a *Scene Design I*. A study of pictorial organization for the support of action and characterization in the production of plays with emphasis on designing the space, the lighting, the costumes, and the decor. Prerequisite: 251a or permission of the instructor. Lec. M T 10-10:50; lab. W 10-11:50. Mr Hatch.
- 253b *Stage Lighting and Recorded Sound*. The design of stage lighting and application of the principles of light, color, illumination, and electricity to the stage. The theory and application of stage make-up, and the influence of stage lighting on make-up. The problem of sound in the theatre: the construction of sound effects, a study of sound systems, and the use of recordings and sound consoles. Lec. M T 2-2:50; lab. W 1:40-2:50. Mr Hatch.
- 261a, b *Writing for the Theatre*. A course in the means and methods of the playwright and the writer for television and the cinema. Analysis of the structure and dialogue of a few selected plays. Exercises in writing for various media. Plays by students will be considered for production. By permission of the instructor. M T 1:40. Mr Felien.
- 341a, b *Directing*. The study and application of directorial techniques: dramatic interpretation, movement and grouping, stage business, casting and rehearsal. Prerequisite for 341a: a semester of acting or a semester of design; for 341b: 341a or permission of the instructor. Th 10-10:50, F 10-11:50, S 10 at the option of the instructor. Mr Snyder.
- 342a, b *Advanced Acting*. Analysis of the theatrical performance and technique. Concentration on the form and style of acting. Lecture and performance. M T 3-5, W 3. Mr Fisher.

THEATRE & SPEECH

- 352b *Scene Design II.* An advanced study of the subjects described in 252a. Pre-requisite: 252a or permission of the instructor. Lec. M T 10-10:50; lab. W 10-11:50. Mr Hatch.

C. Speech

- 131a *Voice Theory and Practice.* The historical, physiological, and phonetic bases of speech. Intensive work on the improvement of the individual speaking voice. Projects in various forms of oral communication. Individual conferences and recordings. M T W 9. Miss Fitch.
- 131b Repetition of 131a. M T W 10. Miss Fitch.
- 231a *Voice Training.* A laboratory course adapted to individual voice and articulatory needs. Voice recordings. *One-quarter course credit.* M T 12. Miss Fitch.
- 231b *Voice Training.* *One-quarter course credit.* M T 12. Miss Fitch.
- 232b *Oral Interpretation of Literature.* Principles and techniques of oral interpretation. Study and oral presentation of selected literary forms. Recommended background: 131a or b. M T W 9.
- [235a *Play Reading.* Theory and techniques of play reading as an art form. Study and presentation of selected plays from world drama. Recommended background: preferably 232b. Th 10, F 10-11:50. Miss Fitch.]
- 331a *Speech for the Classroom Teacher.* The development of speech in the child, problems of defective speech, speech arts in the classroom, and the speech of the teacher. Voice recordings. Th 11-1, F 11. Miss Fitch.
- 332b *Oral Interpretation of Children's Literature.* A critical study of children's literature. The techniques of its oral interpretation. Practical experience in story-telling, reading aloud, and other forms of classroom presentation. Individual voice and speech practice. Th 2-2:50, F 2-3:50. Miss Fitch.
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- 301a, 301b *Special Studies.* By permission of the Department for students who have had three semester courses above the introductory level. Members of the Department.

Graduate

Inquiries concerning graduate work should be directed to the chairman of the Department.

Adviser: Mr Fisher.

THEATRE & SPEECH

411a or 411b *Research and Thesis*. Members of the Department.

412a, 412b *Advanced Studies in Theory and Performance*. (May be taken for double credit.)
Members of the Department.

413a, 413b *Studies in Dramatic Literature, History and Criticism*. (May be taken for double credit.) Members of the Department.

414a *Experimental Phonetics*. The methods and subject matter of experimental phonetics and their application in speech teaching and speech correction, with special reference to the speech of the deaf. Prerequisites: a fundamental course in speech and Physics 111a and b, or Psychology 101b or permission of the instructor.

420b *Advanced Design* (seminar). Setting, costumes, and lights in the dramatic and musical theatre as a revelation of the dramatist's and the composer's meaning and the director's interpretation. Mr Larkin.

THE MAJOR

Adviser: Mr Fisher and members of the Department.

Based on 111a, b.

Program I: for students interested in literature, criticism, and history (Section A).

Requirements: ten semester courses, in addition to 111a and b, including the following: 211a and b, 212a and b, 213b, 241a or 252a, 271a, 311a, 312a and b, or 341a. By special permission, up to four of these ten may be replaced by other courses in Section A or B, or relevant literature courses in other departments; 211a and b may *not* be waived.

Program II: for students interested in theory and performance (Section B).

Requirements: ten semester courses, in addition to 111a and b, including the following: 211a and b, 241a, 251a, 252a, 271a, and four other semester courses selected from Section B. By special permission, up to four of these ten may be replaced by courses in Section A, or relevant courses in Art or Music; 211a and b may *not* be waived.

Examinations: a general examination in theatre arts, and an examination in one of the following fields:

- | | |
|--------------|---------------------------|
| 1. Acting | 5. Dance |
| 2. Directing | 6. History of the Theatre |
| 3. Design | 7. Literary criticism |
| 4. Speech | 8. Playwrighting |

THEATRE & SPEECH

HONORS

Director: Mrs Chinoy.

Basis: 111a, b.

Requirements: (1) ten semester courses, with emphasis on techniques of production, dance, theatre history, or creative writing and research. Students may combine this basic work with courses in art, English, languages, music, speech, theatre, or any other field approved by the director. (2) An independent piece of work, counting for double semester credit, which may take the form of a thesis in the literature, art, or history of the theatre; an original play; creative work in design, acting, dance, direction, or stagecraft.

Three examinations: two written and one oral. The former will be a general examination covering the historical, theoretical and practical aspects of the theatre; the latter an examination in one of the fields listed above. The oral examination will be in the general field of the student's independent piece of work.

ZOOLOGY

See The Biological Sciences, p. 76.

INTERDEPARTMENTAL MAJORS

AMERICAN STUDIES

Adviser: Mr Aaron.

This major aims to bring into a single focus certain courses which explore the history of American culture in its broadest sense. It is limited to fifty students, twenty-five each from the junior and senior classes.

Recommended prerequisites: two semester courses in European History and *one* of the following: History and Social Science 293, History 270a, 271b, English 208.

Requirements: eleven semester courses including

Eight essential courses:

Two semester courses in American history,

Four relevant semester courses in the American field from at least two of the following departments: Art, Economics, Education, English, Government, Philosophy, Religion, Sociology, and Theatre.

American Studies 331a. Contributions of particular fields to the study of American civilization as a whole. For junior majors.

American Studies 340b. *Integrating Course.*

And a departmental concentration:

Students must select a department in which to take a minimum of five courses including three which may not be counted among the eight essential courses specified above.

Two examinations: an interdepartmental examination set by the American Studies Committee; and a departmental field examination in an American subject. The latter may be identical with one of the field examinations offered by the department in which the student has concentrated. If no suitable examination is offered by the department, an appropriate examination will be given by the American Studies Committee.

HONORS

Director: Mr Aaron.

Requirements: the same as those for the major, except that a long paper will be substituted for either one or two of the eleven required courses. The program must also include at least one unit or seminar in the junior and senior years.

Three examinations: an interdepartmental examination; a departmental field examination in an American subject; and a special examination to test the candidate's ability to do independent research.

INTERDEPARTMENTAL MAJORS

GRADUATE

Adviser: Mr Aaron.

AMERICAN STUDIES 455a (455b). *Advanced Studies.*

ANCIENT STUDIES

Adviser: Mr Cohn-Haft.

Basis: Greek 111 or Latin 112b (or the equivalent); History 101. Competence in both Greek and Latin is strongly recommended.

Requirements: twelve semester courses, including five chosen from Greek 212a, b, 322b, 323a, 331a, 334b, Latin 214b, 322b, 323a, 333a, 335a, 337; three from History, including 206a, 210b, and at least one of the following: 205b, 209a, 310b; and four chosen from Art 211a, 212b, 310b, 312b, 314b, Government 260a, Philosophy 124a, 236b, Religion 210a, b, 215, 235a, 315a, b, 327b, and Sociology 235a.

Two examinations: a departmental examination in Greek or Latin or both, and a field examination in Ancient History. In both examinations the student will be expected to demonstrate her ability to assess various aspects of the ancient world through the use of source materials in the original.

HONORS IN ANCIENT STUDIES

Director: Mr Cohn-Haft.

Requirements: the same as those for the major, with the addition of a long paper equivalent to one or two semester courses.

Three examinations: one in Latin, or Greek, or in both languages, to be taken before the end of the junior year; a field examination in Ancient History; and a field examination in classical literature, art, religion, philosophy, or government.

BIOCHEMISTRY

Advisers: Mr de Villafranca, Mr Hellman.

Based on Biological Sciences 101a, and Chemistry 111a and b, or 112a.

Requirements: Biological Sciences 100a, 101a, 130a or 132b, 230a, 331b, and one additional semester course selected from 103b, 120a, 131b or 333b; Chemistry 111a and b (or 112a), and 221b, 222, 231a, 342a. Prerequisites for Chemistry 231a: Mathematics 104a or b, Physics 115, or their equivalents.

Students may be allowed to take Chemistry 112a instead of 111a and b, and to omit Biological Sciences 100a, on the basis of entrance units and performance in a Departmental placement examination.

INTERDEPARTMENTAL MAJORS

Exemption from the required courses in Physics and Mathematics may be obtained on the basis of Advanced Placement or Departmental examinations.

Students are advised to complete all introductory courses and Chemistry 222 before the junior year.

Two examinations: one in Biological Sciences or Chemistry, ordinarily taken at the end of either the junior or the senior year; and one in biochemistry, ordinarily taken at the end of the senior year.

HONORS

Directors: Mr de Villafranca, Mr Hellman.

Prerequisites, normally taken before the junior year: Biological Sciences 100a, 101a; Chemistry 111a and b, 221b, 222; Mathematics 104a or b, and Physics 115 or their equivalents.

Requirements: Chemistry 111a and b (or 112a), and 221b, 222, 231a, 342a; Biological Sciences 100a, 101a, 130a or 132b, 230a, 331b; a unit consisting of one course in each semester of the senior year on an individual investigation.

Three examinations: one in Biological Sciences and one in Chemistry (one of which may be taken at the end of the junior year), and one in Biochemistry; an oral presentation of the honors thesis.

GRADUATE STUDY

Smith College offers graduate programs leading to the degrees of Doctor of Philosophy, Master of Arts, Master of Arts in Teaching, Master of Education, Master of Education of the Deaf, Master of Science in Physical Education, and Master of Fine Arts (Department of Theatre and Speech). For foreign students, programs for a Certificate of Graduate Studies and a Diploma in American Studies are available. Ordinarily about one hundred students are registered for advanced instruction, which is available in most departments of the College and in various interdepartmental fields.

Smith College offers to its graduates a Master of Arts program at the University of Hamburg under the supervision of the Director of the Junior Year in Germany. Other colleges may arrange to have candidates for their own Master of Arts degree admitted to this program as guests.

Students at Smith College who have received a baccalaureate degree or the equivalent from a college or university of recognized standing are under the jurisdiction of the Committee on Graduate Study. They fall into two categories: (1) Graduate Students—those who present evidence of high scholarship, promise of satisfactory ability to pursue advanced study and research, and an adequate background in the field in which they intend to seek a degree; (2) Special Students – those college graduates who are enrolled in courses but are not candidates for an advanced degree. Such students need only the approval of the instructor(s) concerned and the Director of Graduate Study.

The Degree of Doctor of Philosophy requires at least three years of advanced study beyond the Bachelor's degree. At present, programs leading to this degree are available in the Departments of the Biological Sciences (in Botany and Zoology), Chemistry, and Hispanic Studies (in Spanish). Although the requirements for the Master of Arts degree may be fulfilled in one academic year by well-prepared full-time students, most candidates find it more profitable to spend three or four semesters of study to attain the degree. The degree of Master of Education may be obtained in one academic year by properly qualified students, and the program for the degree of Master of Arts in Teaching is normally completed in one academic year in addition to a summer session of six weeks. Ordinarily, two years of full-time graduate study will be required for students with an undergraduate major in the liberal arts to complete the requirements for the degree of Master of Science in Physical Education. There is a residence requirement of two academic years for the degree of Master of Fine Arts.

FELLOWSHIPS AND SCHOLARSHIPS

Smith College offers several fellowships and scholarships for which students who hold a Bachelor's degree or its equivalent may apply. Special scholarships are avail-

GRADUATE STUDY

able for study in Education and in Physical Education. Other fellowships are offered to students from foreign countries.

The science departments and the departments of Education and Child Study, Music, and Theatre and Speech offer teaching fellowships and graduate assistantships for part-time graduate study combined with departmental assistance.

Information concerning the requirements for the various advanced degrees, admission, residence fees, and fellowships is given in the *Bulletin of Graduate Studies*. This bulletin and an application blank for admission may be obtained from the Secretary to the Committee on Graduate Study, Gateway House, Smith College, Northampton, Massachusetts 01060.

FOUR-COLLEGE COOPERATIVE PH.D. DEGREE

A cooperative Ph.D. program has been established by Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts. When a student has been awarded a degree under this program, the fact that it is a cooperative Ph.D. degree involving Amherst, Mount Holyoke, and Smith Colleges, and the University of Massachusetts will be indicated on the diploma, the permanent record card, and all transcripts, as well as on the Commencement Program.

The requirements for the degree are similar to those for the Ph.D. degree at the University of Massachusetts except for the statement relating to residence. For the cooperative Ph.D. degree, residence is defined as taking place at the institution where the thesis work is being done.

The following departments are authorized to offer the cooperative Ph.D. degree: the Biological Sciences, Chemistry, French, Geology, German, Hispanic Studies, Philosophy, and Physics.

Students interested in this program should write to the Dean of the Graduate School, University of Massachusetts, Amherst, Massachusetts, 01002.

General Information

THE COLLEGE COMMUNITY

RESIDENCE

Community life and interests are an integral part of the education offered by Smith College. A large number of student organizations—of a civic, cultural, athletic, religious, political, social, pre-professional, or service nature—have the lively support of interested members of the student body to whom they give valuable experience. For some of these activities, such as the largely autonomous student government and the various campus publications, the students themselves are almost wholly responsible; for others, such as the formal musical activities, faculty direction is provided.

Life on the campus is also enriched by an extensive program of lectures and concerts which bring to the College distinguished speakers and musicians from this country and abroad. Additional lectures, concerts, recitals, plays, and debates by both the faculty and the students make for a full and varied calendar.

In support of these and other aspects of community life, the College emphasizes the importance of residence. Freshmen are allowed only a limited number of nights away from the campus during the first semester. At the beginning of the second semester of her freshman year, the student herself assumes the responsibility for upholding the principle of residence.

Faculty and student legislation relating to residence and attendance is printed in full in *The College Handbook*.

THE HOUSES

The basic unit of the campus community is the college house which normally accommodates fifty to eighty students representing all four classes. Assignments to houses are made in the order of dates of application for admission to college. A student may move from one house to another each year during her college course, the order of assignment after the freshman year being determined by lot.

Except for a few smaller houses which are grouped together to make a single unit, each college house has its own living rooms, dining room, and kitchen, and is in the charge of a Head of House who devotes full time to the administration of the house and the welfare of its members. In some of the houses there is also a resident member of the faculty. Social regulations governing life in the houses are administered by the Student Government Association. Every student contributes

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up to four hours a week of light service to the house in addition to taking care of her own room.

RELIGIOUS LIFE

The College provides opportunity for the development and expression of religious faith of all creeds. Worship services of the major Western traditions are held weekly during the College year in the Helen Hills Hills Chapel on Sunday mornings (Protestant), Thursday mid-day (Roman Catholic), and Friday evening (Jewish), on religious festivals and at other times as announced.

The Religious Association and its member groups, the Christian Association, the B'nai B'rith Hillel Foundation, and the Newman Club, have headquarters in the Bodman Religious Center, downstairs in the Chapel. These groups present a varied program of worship, study, and social action, including many opportunities for community service in the Northampton area and for summer service in the United States and abroad. Other religious groups also meet in the Chapel rooms and use its facilities for their programs. Thus the opportunity is provided for students of all faiths to strengthen their own convictions and to gain an understanding and appreciation of other traditions.

The Chaplain and Associate Chaplain also have their offices in the Chapel and are available for religious and personal counsel. Northampton's churches and synagogue make a special effort to welcome students to their services and their programs.

HEALTH

The Health Service is directed by the College Physician assisted by a medical staff of three full-time physicians, one half-time physician, and one part-time psychiatrist. The services of specialists are readily available in Northampton and Springfield for consultation in cases of unusual or serious illness. The Student Counseling Service, headed by the psychiatrist, provides confidential counseling for students who are concerned about personal problems. As part of its emphasis on preventive medicine, the Health Service also exercises supervision of the health of all of the college service employees.

The Elizabeth Mason Infirmary with a capacity of seventy-five beds is a modern hospital fully accredited by the Joint Commission on Hospital Accreditation. In addition to administrative personnel, its staff includes both a laboratory and an x-ray technician, a dietary supervisor, and eleven registered nurses employed full time. The ground floor of the Infirmary houses the outpatient offices of the medical staff. The Counseling Service has offices on the first floor in the East Wing.

The College has its own insurance plan, underwritten by Blue Cross-Blue Shield, which gives the student unusual protection in the special circumstances of a residence college, in addition to protecting her over a twelve-month period whether or not she is in residence at college. Participation in this plan is optional providing the student

GENERAL INFORMATION

has protection under another plan and furnishes the Treasurer's Office with the name and address of the insurance carrier and the student's membership number.

The health fee of \$15 pays for outpatient services. These include examination and treatment by the College physicians, and the Student Counseling Service. Treatment includes some medicines, physical therapy in the form of ultra-violet irradiation and various forms of heat such as diathermy, infra-red rays and whirlpool baths, injections for desensitization as requested by a student's own physician and, in addition, most immunizations needed for foreign travel. Some orthopedic appliances, such as crutches, canes, slings, are available on loan.

Complete physical examinations are performed as required for graduate school, employment applications or other special programs.

The College doctors are always available for conference with students.

In the interests of individual and community health, every student is expected to comply with the health regulations which are outlined in *The College Handbook*.

VOCATIONAL COUNSELING AND PLACEMENT

The Vocational Office assists students and alumnae with career planning and also supplies specific information about employment opportunities, permanent and summer. In addition, it provides information concerning specialized and professional training, arranges lectures and discussions on various vocations, and schedules interviews with employers and representatives of graduate schools who visit the campus. Letters of recommendation are collected for undergraduates, seniors, and alumnae from employers, faculty, and members of the administration, and they become part of a cumulative record kept for every student and alumna. These records are on file in the Vocational Office and are sent upon request to prospective employers and scholarship committees.

BUILDINGS AND GROUNDS

COLLEGE HALL, dedicated in 1875 at President Seelye's inauguration, is the main administrative building of the College. The tower houses the twenty-three-bell Dorothea Carlile Carillon presented by her family as a memorial to Dorothea Carlile of the Class of 1922.

JOHN M. GREENE HALL, given by John D. Rockefeller and other donors, is a large auditorium seating 2066 with additional seating space on the stage. The four-manual Austin organ of seventy stops, built in 1910, was presented by the Class of 1900 as a memorial to Cornelia Gould Murphy.

THE WILLIAM ALLAN NEILSON LIBRARY, the gift of Andrew Carnegie, alumnae, and friends, was built in 1909. It was enlarged in 1937, and again in 1962, when two additional wings were added to provide more stacks, and to make possible additional seminar rooms, carrels for students, and offices for staff and faculty.

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The Smith College Library contains 510,000 volumes, this number including those books and pamphlets housed for greater convenience in the libraries of the art, music, and science buildings; 2430 current periodicals, and about 40 daily newspapers. The open-shelf system permits free access to all books.

THE HELEN HILLS CHAPEL, completed in 1955, provides a place for public worship and private meditation. The Clara P. Bodman Religious Center, located in the Chapel, contains a lounge and library, a choir room, and offices for the Chaplain and the campus religious organizations. The three-manual Aeolian-Skinner organ of thirty-nine stops, built in 1955, was presented by Mrs Hills as a memorial to her husband, James Mandey Hills.

SEELYE HALL, given by friends of President Seelye, contains 24 classrooms and, until 1966, housed the laboratories and office of the Department of Geology and Geography.

HATFIELD HALL, formerly Hatfield House, became an academic building in 1926, providing additional seminar and class rooms.

WRIGHT HALL, completed in September 1961 and named for former President Benjamin F. Wright, contains 58 faculty offices, eight seminar rooms, a language laboratory, a social science research center, a conference lounge, and a lecture hall seating 424.

THE HILLYER GALLERY, named for Winthrop Hillyer whose gift and bequest made possible the college's first art gallery, is equipped with studios and exhibition rooms, the Drayton Hillyer Art Library of 21,000 volumes, and collections of 44,000 photographs and 87,000 slides. Graham Hall, a lecture hall seating 265, was added to the building through the generosity of Christine Graham Long of the Class of 1910.

When the TRYON GALLERY was presented to the College by Mr and Mrs Dwight W. Tryon to house the Smith College Museum of Art, most of the paintings, prints, and other works of art in the Hillyer Gallery were transferred to it. The Museum also contains galleries for loan exhibitions, which are arranged under its auspices to supplement the permanent collections.

SAGE HALL, the music building named in honor of Mrs Russell Sage, contains classrooms, offices, practice rooms and listening rooms, the Werner Josten Music Library of 10,000 books and 35,000 scores, and a collection of 25,000 records. It also has an auditorium seating 743, and is equipped with apparatus for motion pictures.

THE CLARK SCIENCE CENTER, given by Mrs W. Van Alan Clark (Edna McConnell '01) and other donors, comprises a completely renovated Burton Hall and two new buildings: McConnell Hall, and Sabin-Reed Hall, named for Dr Florence Sabin '93 and Dr Dorothy Reed Mendenhall '95.

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MCCONNELL HALL, opened in December 1965, houses the Departments of Astronomy, Mathematics, and Physics. Sabin-Reed Hall, completed in September 1966, contains the Departments of the Biological Sciences, Chemistry, part of Geology and Geography, and a Science Library of 42,000 volumes and over 450 current periodicals. Burton Hall, named for President Burton, is devoted to the Departments of Psychology and Geology.

THE CLARK SCIENCE CENTER meets the most exacting specifications for modern scientific experimentation and equipment. In addition to formal class laboratories, there are areas for graduate and advanced undergraduate research. Each instructor has his own office and laboratory. All departments share the use of the McConnell Auditorium seating 200, general class rooms, and seminar rooms, radiation laboratories, quarters for animals, a machine shop, stockroom, and special equipment.

PIERCE HALL, named in honor of Professor Arthur Henry Pierce, was devoted mainly to the Department of Psychology from 1882 to 1966.

LILLY HALL OF SCIENCE, the gift of Alfred Theodore Lilly, contained the lecture rooms, laboratories, and library of the Department of Physics from 1886 to 1966.

STODDARD HALL, named in honor of Professor John Tappan Stoddard, served as the college's chemistry building from 1899 to 1966.

THE LYMAN PLANT HOUSE, the gift of Edward Hutchinson Robbins Lyman in memory of his mother, Anne Jean Lyman, includes greenhouses illustrating the vegetation of different climates, together with physiological and horticultural laboratories. Adjoining it is the BOTANIC GARDEN designed for horticultural study, with sections to illustrate plant classification and habits. Arranged about the college grounds are smaller gardens and numerous varieties of native and imported trees and shrubs.

THE ALUMNAE GYMNASIUM, given by the alumnae and their friends in 1891, contains two bowling alleys and four squash courts. It is also the present home of the Smith College Theatre. Classrooms and offices of the Department of Theatre and Speech are located in this building.

THE SCOTT GYMNASIUM, named in honor of Col. Walter Scott, contains a large floor used for volleyball, basketball, and fencing, a room for dance, two smaller gymnasiums for group gymnastics, a graduate student classroom and library, a swimming pool 75 feet by 23 feet, an undergraduate lounge, and department offices.

GILL HALL, MORGAN HALL, and FORT HILL HOUSE are used by the Department of Education and Child Study for the Smith College Day Schools. Gill Hall contains an assembly hall seating 170, and has a large playground adjoining it. A recently completed annex has increased the number of its classrooms.

THE ELIZABETH MASON INFIRMARY was opened in 1919. Its name commemorates Elizabeth Mason Howland, a graduate of the Class of 1904 and a daughter of

GENERAL INFORMATION

Frank H. Mason whose gift completed the fund raised by the Alumnae Association for the construction of an infirmary. The Florence Gilman Pavilion, added while Smith was host to the Naval Officers' Training School, was enlarged and completed in 1950-51. The result is an attractive, well-equipped, fire-resistant hospital with a capacity of seventy-five beds. In the fall of 1963 it was fully accredited by the Joint Commission on Hospital Accreditation. The ground floor of the Infirmary houses the outpatient offices of the medical staff.

THE ALUMNAE HOUSE, presented to the College by the Alumnae Association in 1938, contains offices for the staff of the Association, rooms for the use of the alumnae and the college, including a conference room seating 300.

DAVIS STUDENT CENTER, the student recreation building, contains a food shop, lounge, ballroom, and committee rooms for student organizations. It was named by the students in honor of President Davis.

THE RECREATION FIELDS, over thirty acres in extent, including the Allen Field, the gift of Frank Gates Allen, and the Athletic Field, afford opportunities for such sports as hockey, soccer, baseball, lacrosse, tennis, archery, volleyball, practice golf. A short distance away are the Riding Stables. The Field House was built in the summer of 1939 with funds given by the classes of 1938 and 1939, the undergraduates, the Athletic Association, and the Trustees. Besides storage space for athletic equipment, it contains a lounge, a kitchenette, a small meeting room, and dressing rooms. The Boathouse on Paradise Pond has accommodations for canoes, rowboats, sailboats, and rowing machines. In the Crew House are eight rowing shells and a large recreation room.

THE COLLEGE HOUSES

The thirty-four residence units provide living accommodations for approximately twenty-two hundred students.

The Old Campus: Chapin, Dewey (together with Clark, a small house adjacent to it), Haven (together with Wesley), the Hopkins group (three contingent houses), Hubbard, Lawrence, Morris, Park, Park Annex, and 150 Elm Street, Tenney (cooperative, for upperclassmen), Tyler, Washburn.

The Campus Northeast of Elm Street: Albright, Baldwin, Capen, Cutter, Dawes (the French House), Gillett, Lamont, Northrop, Parsons and Parsons Annex, Sessions, Talbot, Ziskind.

The Quadrangle Houses: Comstock, Cushing, Ellen Emerson, Franklin King, Gardiner, Jordan, Laura Scales, Martha Wilson, Morrow, Wilder.

The Graduate Houses: 8 Bedford Terrace, Elizabeth Drew House.

FEES AND EXPENSES

THE ANNUAL FEE

The inclusive annual charge for tuition, residence, and health fee for the 1968-69 academic year will be \$3,290. The College offers an optional health insurance program (see p. 205). Students are not charged the full cost of instruction since the annual fee represents approximately three-fourths of the cost to the College for each resident student. Thus every student receives a sizable scholarship provided out of endowment income and current gifts to Smith College.

Statements for semester fees are mailed on or about August 15 and January 20. Payment of charges for the first semester is due by September 1; for the second semester by February 1. Checks should be made payable to Smith College and forwarded to the Office of the Treasurer.

PAYMENT PLANS

The College has no established plan for installment payment of semester charges. The cost of operating such a plan and the fact that the College is not staffed to handle it preclude the possibility of such an arrangement. The College participates in the Insured Tuition Plan and Education Funds Incorporated; both plans offer monthly payment plans to parents. Pamphlets describing these plans are mailed by the Treasurer's Office to parents of incoming freshmen prior to the beginning of the academic year.

WITHDRAWAL REFUNDS

Commitments to Faculty and staff and arrangements for the housing and board of students are made by the College in advance of the academic year. They are based on anticipated student enrollment and are not subject to change.

A student who notifies the Registrar of her withdrawal prior to the opening of the College will have all charges cancelled.

A student who withdraws after registration will receive no refund for tuition or room. Board will be refunded on a pro-rata basis.

DEPOSITS

A General Deposit in the amount of \$100 is required from each new student.

1) For students entering under the Early Decision Plan, the deposit is payable by January 1.

2) For all other students, the deposit is payable on or about May 5. (This is a one-time deposit which will be refunded following graduation or upon withdrawal, provided that the Registrar has been notified in writing before July 1 that a student will withdraw for first semester or before December 1 for second semester. The deposit is not refunded for new students in case of withdrawal before entrance.)

A Room Deposit, non-refundable, in the amount of \$100 is required from each incoming resident Freshman or upper class transfer student. This deposit is due on the same date as the General Deposit described above. It will appear as a credit on first semester statements.

FEES AND EXPENSES

	1st semester	2nd semester
TUITION	\$ 1,025.00	\$ 1,025.00
ROOM AND BOARD	613.00	612.00
HEALTH FEE	15.00	
TOTAL REQUIRED FEE	\$ 1,653.00	\$ 1,637.00
ACCIDENT AND SICKNESS INSURANCE		
Optional if alternate coverage is carried		\$30.00
OTHER FEES AND CHARGES		
<i>Fees for courses in practical music</i>		
Vocal or instrumental, for the College year:		
One hour lesson a week		225.00
One half-hour lesson and two class hours		225.00
One additional half-hour lesson taken for extra credit		75.00
Courses in ensemble when given individually		50.00
Use of practice room and a college instrument		15.00
Use of practice room only, one hour daily		7.50
Use of organs, one hour daily		35.00
<i>Fees for classes in riding</i>		<i>plus</i>
		<i>jumping</i>
Fall 2 hours weekly	\$55.80	\$ 69.30
3 hours weekly	83.70	97.20
Winter Unlimited riding	85.00	98.00
Spring 2 hours weekly	37.20	46.20
3 hours weekly	58.50	67.50
<i>Materials for courses in technical art</i>		at cost
<i>Graduation fee</i>		15.00
<i>Infirmiry charge per day</i>		30.00
Each resident student may have Infirmiry care for six days each year without charge, but no more than two free days may be used for any one illness.		
<i>Preliminary Payments</i>		
Registration for application for admission		15.00
Not refunded or credited		
General Deposit		100.00
Room Deposit		100.00
(See preceding page for information concerning the above deposits.)		
FEE FOR NON-MATRICULATED STUDENTS FOR EACH COURSE		255.00
FEE FOR AUDITING, PER THREE-HOUR COURSE		5.00
ESTIMATED ADDITIONAL EXPENSES:		
Books, each year, approximately		125.00
Subscriptions and dues, student activities		25.00
Gymnasium outfit for physical education		30.00
Recreation and incidentals		from \$250.00 up

SCHOLARSHIPS & FINANCIAL AID

SCHOLARSHIPS

For students who are unable to meet their full expenses, the College offers scholarships ranging from \$200 to full fees as well as student loans. The scholarships are made possible through endowed funds given to the College for this purpose, by an annual appropriation from general income, by annual scholarship gifts from alumnae clubs and other organizations, and through the Educational Opportunity Grant Program. Awards are granted to applicants of marked scholastic achievement, academic promise, and demonstrated financial need. Requests for financial aid are considered confidential. They are not made a part of the record used for decisions on Admission.

Any scholarship granted to an entering student will normally be continued through her sophomore year if she maintains a good personal record, an academic standing of diploma grade, and proves financial need. At the completion of the sophomore year all awards will be reviewed by the Financial Aid Committee. Awards will then be renewed only on the bases of demonstrated ability, total achievement, and continued need.

Applicants and their families are advised that when no scholarship aid is awarded for the freshman year there is small likelihood that a student will receive a scholarship for the following year, except in emergency situations. Applicants with a superior academic record for the first two years and continued need will be considered for upperclass awards.

Applications for financial aid for entering students must be sent to the Director of Financial Aid. Candidates for entrance in September 1968 must file financial aid applications by January 8, 1968. Students applying for admission under the Early Decision Plan should send their applications to the Director of Financial Aid by October 1st of the senior year at school.

Scholarships are granted at the discretion of the Trustees to undergraduates who have been residents of Northampton or of Hatfield for at least five years directly preceding the date of their admission to college, provided they are able to satisfy the full requirements for admission. Such grants are continued through the college course if the student maintains diploma grade, conforms to the regulations of the College, and continues to be a resident of Northampton or Hatfield.

Scholarships of amounts up to full fees may be awarded to foreign students. Special applications should be directed to the Committee on Foreign Students.

The Huguenot Society of America awards scholarships of \$1000 at the recommendation of the College to students whose ancestry meets the requirements of the Society. Special application forms are available in the office of the Director of Financial Aid.

LOANS

Each award of financial aid to regular students is usually a combination of scholarship grant and loan.

SCHOLARSHIPS

Student loans from College funds are available to students in good standing with proven financial need. Smith College also participates in the National Defense Education Act Loan Program. All applications for loans should be made to the Director of Financial Aid by August 1st of the year of entrance. Later applications may be considered in emergencies. Because College loan funds may be limited, students are urged, whenever possible, to seek loan assistance locally through State and Federal programs.

All financial aid, whether scholarship or loan, is granted only to applicants whose need is proved on the basis of information submitted on the Parents' Confidential Statement of the College Scholarship Service. Need is reviewed annually. The College itself makes all final decisions. Awards to entering students are announced simultaneously with admission decisions.

SELF-HELP

Tenney House, originally established as the gift of Mary A. Tenney, is open to members of the three upper classes. In this house the students cooperate in the purchase of food and in the duties of housekeeping. The cost of a room in Tenney House is \$200 for the year; current prices determine the cost of board.

The College undertakes general supervision of the remunerative work done by undergraduates on the campus. Students wishing any kind of employment during the college year should register with the Director of Financial Aid. The amount of work available is limited. Freshmen are not permitted to work outside their houses during their first semester.

MUSIC SCHOLARSHIPS

Each year the College awards scholarships for lessons in practical music to students recommended by the Music Department. Auditions are held for entering students after the opening of College.

FIRST GROUP SCHOLARSHIPS

The following scholarships are awarded to students of highest academic standing:

The Neilson Scholarships. Not more than fifteen scholarships, created by the Board of Trustees in honor of President William Allan Neilson on the completion of fifteen years of his administration, are awarded annually to students in the first group of scholars in the three upper classes.

The Dwight W. Morrow Scholarships. Ten scholarships are awarded annually to seniors in the first group of scholars.

The William A. Neilson Scholarship. This award provides full tuition for a student in the first group.

SCHOLARSHIPS

The Sophia Smith Scholarships. These scholarships are awarded without stipend to members of the three upper classes whose standing entitles them to a place among the first group of scholars.

FELLOWSHIPS

The list of fellowships awarded for graduate work, including those open to students from foreign countries, appears in the *Bulletin of Graduate Studies*.

PRIZES

The *Alpha Awards* are made annually by committees of the faculty for excellence in the fields of creative writing, dance, drama, technical art, practical music or composition.

The *Academy of American Poets Poetry Prize* of \$100, to be awarded annually by the Academy of American Poets through the prize committee of the English Department for the best poem or group of poems submitted by an undergraduate.

The *Anita Luria Ascher Memorial Prize* of \$25, given in her memory by Dr. Liebe D. Sokol '51 and her parents, to be awarded annually to the student who has shown most progress in German during the year.

The *Elizabeth Babcock Poetry Prize* fund of \$4,247.86, established by Miss Edith L. Jarvis 1909 in memory of Elizabeth Babcock ex-1911. The income is to be awarded annually for the poem adjudged best by a committee appointed by the Department of English. The competition is open to all undergraduates who have not already won the prize; the poem submitted may not have been printed previously.

The *Harriet Dey Barnum Memorial Prize* fund of \$509.44, founded by the Class of 1916, the income to be used for outstanding work in music.

The *Suzan Rose Benedict Prize* fund of \$1,844.07, the income to be awarded at the discretion of the Department of Mathematics to a freshman or sophomore who has done outstanding work in differential and integral calculus, the decision being made by the Department.

The *Borden Freshman Prize* of \$200, to be awarded annually from 1962 to 1971 to that student who has achieved the highest average grade among the members of the class for all college work taken during the freshman year.

The *Samuel Bowles Prize* fund of \$3,402.59, the income to be awarded to a senior for the best thesis on a sociological or economic subject.

The *John Everett Brady Prize* fund of \$3,398.10, the income of which is awarded for excellence in Latin, to be tested by an examination in sight translation.

The *Margaret Wemple Brigham Prize* fund of \$1,444.26, established in her memory by friends and associates of the Division of Laboratories and Research of the New York State Department of Health, the income to be awarded to a senior for excellence in bacteriology.

The *Amey Randall Brown Prize* fund of \$3,398.10, given by Miss Mabel Brown 1887 in memory of her mother. The income is to be used as a prize for the best essay on a botanical subject.

The *Vera Lee Brown Prize* fund of \$1,699.50. On recommendation of the Department of History the income is awarded for excellence in that subject to a senior majoring in history in the regular course.

PRIZES

The *Yvonne Sarah Bernhardt Buerger Prize* fund of \$8,496.30, the income to be awarded to those undergraduates who have contributed most vitally to the dramatic activities of the College.

The *James Gardner Buttrick* fund of \$1,699.50, given by Mrs Buttrick in fulfillment of her husband's wish, the income to be used for a prize for the best essay on a subject in the field of religion and Biblical literature suggested by a course in that Department and approved by the instructor.

The *Carlile Prize* fund of \$1,716.85, given by the Very Reverend and Mrs Charles U. Harris in memory of Dorothea Carlile 1922, from which is awarded a prize of \$25 for the best original composition for carillon and a prize of \$15 for the best transcription for carillon.

The *Julia Harwood Caverne Prize* fund of \$3,398.10, the income of which is given to a member of the junior or the senior class for excellence in Greek language and literature.

The *Sidney S. Cohen Prize* fund of \$4,247.86, the income to be awarded at the discretion of the Department of Economics.

The *Ethel Olin Corbin Prize* fund of \$1,699.50, the income to be awarded to an undergraduate for the best original poem—preferably blank verse, sonnet, or ballad—or informal essay in English.

The *Daves Prize* fund of \$3,226.22, the income to be awarded for the best undergraduate work in political science.

The *Alice Hubbard Derby Prize* fund of \$4,341.95, the bequest of Mr Henry R. Lang in memory of his wife, a member of the Class of 1885. The income is to be used for prizes awarded by the Classics Department to students of the junior and senior classes who have shown special proficiency in the study of Greek literature in the original in the year in which the awards are made. The award will be based on an examination in sight translation.

The *Elizabeth Drew Prize* fund of \$5,000, the income to be awarded to an undergraduate for work in English.

The *Hazel L. Edgerly Prize* fund of \$849.75, founded in memory of Hazel Louise Edgerly 1917, the income to be awarded on the recommendation of the Department to a senior in honors in history for distinguished work in that subject

The *Settie Lehman Fatman Prize* fund of \$8,495.82, the income to be awarded in two prizes for the best musical composition, preferably in sonata form, and for the best composition in a small form by members of the senior class or graduate students taking Music 342 or Special Studies in Composition or by a student in Music 233.

The *Harriet R. Foote Prize* fund of \$849.75, the income of which is to be awarded to the outstanding student in botany, based on an examination record.

PRIZES

The *Henry Lewis Foote Memorial Prize* fund of \$849.75, given by his wife, Harriet Risley Foote 1886, the income to be awarded for excellence in class work in Biblical courses.

The *Clara French Prize* fund of \$8,496.06, founded by Mrs Mary E. W. French, the income to be given to that senior who has advanced farthest in the study of English language and literature.

The *Helen Kate Furness Prize* fund of \$1,699.50, founded by Horace Howard Furness, the income of which is given for the best essay on a Shakespearean theme. There is no restriction on the length of the essays, but in general they are not to be shorter than 4000 words or longer than 10,000 words. The competition is open to all essays on a Shakespearean theme (except honors theses) prepared in courses or units and recommended by the instructors of such courses or units.

The *Sarah H. Hamilton Memorial Prize* fund of \$1,228.56, given by her sister Julia H. Gleason, the income to be awarded for an essay on music.

The *Arthur Ellis Hamm Scholarship Prize* fund of \$8,495.82, founded by Elizabeth Creevey Hamm 1905 in memory of her husband, Captain Arthur Ellis Hamm, the income to be awarded to a freshman on the basis of the year's record.

The *Frances A. Hause Memorial Prize* fund of \$1,699.50, founded in memory of Frances A. Hause 1922, the income to be awarded to the senior who has majored in chemistry and has made the best record in that subject.

The *Demis Johnston Playwriting Award* fund of \$2,041.25 for the best play or musical written by an undergraduate. The author must be a student at Amherst College, Mount Holyoke College, Smith College, or the University of Massachusetts.

The *Florence Corliss Lamont Prize*, a medal to be awarded for work in philosophy.

The *Emogene Mahony Memorial* fund for the furtherance of English literature and dramatic art from which is awarded \$25 for the best essay on a literary subject written by a freshman, and \$100 for the best honors thesis submitted to the Department of English.

The *Emogene Mahony Memorial Prize* fund of \$849.75, founded by Miss Ethel Haskell Bradley 1901, the income to be given for proficiency in organ.

The *John S. Mekeel Memorial Prize* fund of \$1,232, given in his memory by his wife, the income of which is to be awarded annually to a member of the senior class, selected by the Philosophy Department, for outstanding work in philosophy.

The *Samuel Michelman Memorial Prize* fund of \$849.75, given in his memory by his wife, the income to be awarded to a senior from Northampton or Hatfield who has maintained a distinguished academic record and contributed to the life of the College.

PRIZES

The *Mrs Montagu Prize* fund of \$679.63, founded by Abba Louisa Goold Woolson in honor of Elizabeth Montagu, the income to be awarded for the best essay on the women of the eighteenth century or women depicted in the literature of that century.

The *Victoria Louise Schrager Prize* fund of \$3,398.23, given in her memory by her family and Miss Marjorie Hope Nicholson, the income to be awarded annually to a senior who has maintained a distinguished academic record and has also taken an important part in student activities.

The *Andrew C. Slater Prize* fund of \$1,699.50, the income of which is awarded to an undergraduate for excellence in debate.

The *Rosemary Thomas Poetry Prize* fund of \$10,000, the income to be awarded by a committee of members of the Smith College English Department to the undergraduate student who has shown by her creative writing the greatest evidence of poetic gift and dedication to poetry as a view of life.

The *Frank A. Waterman Prize* fund of \$569.33, the income to be awarded to a senior who has done excellent work in physics.

1967 Awards

PRIZES

Alpha Awards: in art, Mirra Bank, 1967; creative writing, Susan Rumble, 1967; dance Sharonjean Moser, 1967; music, Claire Segal, 1967; theatre, Barbara Rugen, 1967
Academy of American Poets Poetry Prize: Ann S. Barker, 1967

American Chemical Society Student Award, Connecticut Valley Section: Victoria E.

Leitner, 1967

American Institute of Chemists' Medal: Joan Selverstone Valentine, 1967

Elizabeth Babcock Poetry Prize: First prize: Jeri L. Kroll, 1967; second prize: Elizabeth G. Eaton, 1969; third prize: Joan K. Althaus, 1967

Harriet Dey Barnum Memorial Prize: Stephanie J. Heiligman, 1967

Suzan Rose Benedict Prize: Elaine M. Diefenderfer, 1970

Borden Freshman Prize: Terrie C. Sieradzki, 1970

Samuel Bowles Prize: Economics: Marion R. Foote, 1967; Sociology: Barbara E.

Kalkas, 1967

John Everett Brady Prize: Ann L. White, 1967

Margaret Wemple Brigham Prize: Nancy K. Harpster, 1967

Amy Randall Brown Prize: First Prize: Maria T. DiNorcia, 1968; second prize: Emily Couric, 1969

Vera Lee Brown Prize: Margaret L. Christ, 1967

Yvonne Sarah Bernhardt Buerger Prize: Sharonjean Moser, 1967, Cheryl C. Clark, 1967, and Barbara U. Schilling, 1967

James Gardner Buttrick Prize: Charnley A. Marsden, 1967 and Melissa C. Scott, 1969

Julia Harwood Caverno Prize: Justina Winston, 1967

Sidney S. Cohen Prize: Marion R. Foote, 1967, Carla E. Germano, 1968, and Katherine P. Messenger, 1969

Alison Loomis Cook Scholarship Award: Rosalind Lum, 1968

Ethel Olin Corbin Prize: Patti Sobel Parson, 1967

Dawes Prize: Melina M. Hamada, 1967 and Kathryn T. Simpson, 1967

Alice Hubbard Derby Prize: Justina Winston, 1967

Elizabeth Drew Prize: Dinitia E. R. Smith, 1967

Amanda Dushkin Scholarship Award: Lindley P. Hanlon, 1969

Hazel L. Edgerly Prize: Susan K. Roth, 1967

Settie Lehman Fatman Prize: Martha C. Woodward, 1968

Harriett R. Foote Prize: Nancy C. Kovaleff, 1970

Henry Lewis Foote Memorial Prize: Kay M. Riddle, 1968

Clara French Prize: Susan A. Nash, 1967

Helen Kate Furness Prize: First prize: Susan Rumble, 1967; second prize: Catherine A. Ribnick, 1968; third prize: Roberta B. Rosenberg, 1967

Sarah H. Hamilton Memorial Prize: Janet H. Brauer, 1969

1967 AWARDS

- Arthur Ellis Hamm Scholarship Prize*: Terrie J. Sieradzki, 1970
Frances A. Hause Memorial Prize: Joan Selverstone Valentine, 1967
Denis Johnston Prize: Anne Wood, Mount Holyoke, 1968, and Anne Trosper, Mount Holyoke, 1967
Florence Corliss Lamont Prize: Margaret Von Blon, 1967
Emogene Mahony Memorial Fund: Mary F. Moore, 1970 and Nancy R. Rodgers, 1967
Emogene Mahony Memorial Prize: Martha Burt Holt, 1969
Guthrie McClintic-Katharine Cornell Prize: Kathleen Boscardin, 1968
John S. Mekeel Memorial Prize: Rea E. Rabinowitz, 1967
Samuel Michelman Memorial Prize: Jane B. Bishop, 1967
Victoria L. Schrager Prize: Nancy F. Kirschenbaum, 1967
Rosemary Thomas Poetry Prize: Susan Rumble, 1967
Frank A. Waterman Prize: Enid K. Sichel, 1967 and Valerie Griffith, 1967

FIRST GROUP SCHOLARS*

Class of 1968

Mary Ellen Birkett	Mary Alice McDermott
Pamela Zoe Bowes	Anne Christine McMorrow
Arline Florence Boyer	Catharine Alice MacKinnon
Alison Lee Chapin	Linda Henrietta Mahr
Sally Chapman	Donna Dewar Markle
Carla Emilia Germano	Kim Inez Melnikoff
Julia Stanbery Gibson	Mary Lou Michael
Carole Eudice Goldberg	Charlie Elisabeth Onion
Julie Anne Graham	Diane Grey Page
Ellen Martha Greenhouse	Carole Aris Pope
Barbara Lynn Gutzman	Rosalind Rayack
Jerri Louise Hill	Betsy Jean Rosasco
Martha Joan Katz	Carole Lynn Schutte
Donna Katzin	Sylvia Rose Schwartz
Diane Pierce Kittredge	Mary Ellen Shields
Sheila Ann Klaiber	Dorothy Elizabeth Siegel
Frances Bigelow Knapp	Margot Ballou Stein
Ellen Mary McAuliffe	Judy Rutter Warriner
Heather McClave	Clyde Dingman Watson
Margery Sue McCuskey	

*These include the Dwight W. Morrow, the Neilson, the William Allan Neilson, and the Sophia Smith scholars.

1967 AWARDS

Class of 1969

Carol Helen Bittig
Lois Susan Bornstein
Janet Harrison Brauer
Catherine Vernon Campbell
Laura Mary D'Andrea
Dorothea Dodge
Elizabeth Gale Eaton
Virginia Willis Erck
Karen Robin Feibusch
Marcia Jeanne Franzen
Ellen Amy Gurman
Priscilla Anne Hamill
Betsy Lamson
Loretta Rose Laurenitis

Jane Elizabeth Leu
Frances Kaye McSweeney
Alexandra Hepburn Maddox
Terry Ann Marek
Eleanor Spangler Rutledge
Linda Jane Salzman
Amy Finley Scott
Melissa Corinne Scott
Lynn Doreen Slaughter
Wendy Alpern Stein
Barbara Lynn Steinmann
Lucille (Yih-Lo) Waung
Kathy Jo Weingarten
Pearl Tak Chu Yau

Class of 1970

Susan Pierce Edwards
Jean Kathleen Fahey
Peggy Jane Kamens
Nancy Carol Kovaleff
Deborah Anne Kuhn
Madelyn Dawn Newman

Mary Caroline Parker
Lynne Porter
Terrie Christine Sieradzki
Shelley Jean Stark
Lynn Ristell Tornow
Louise Anne Wald

DEGREES

A.B.

Adrienne Abrams
Hannah Achtenberg
Diana Cabaniss Akers
Dilek Aksugur
Elaine Myrna Albom
Sydney Helene Alderman (Perry)
Ann Merle Aleskovsky
Susan Emerson Alford
Frances Vandegrift Allen
Margaret Berry Allen
Marilyn Louise Allen
Vannesa Allen

Joan Kathleen Althaus
Ann Leslie Alton
Susan Jane Amendola
Carol Jeffrey Andreae
Georgia Mary Angell
Percy Lee Angelo
Barbra Rose Apfelbaum
Claudette Marie Asselin

Barbara Lee Bachman
Ann Rogers Baird
Mirra Ellen Bank

*Elected to Phi Beta Kappa

†Elected to Sigma Xi

1967 AWARDS

- Jane Banquer
 Paula Stapleton Barker
 Jane Ellen Barlow
 *Susanna Isabel Barrows
 Elizabeth Frances Bartelink
 Ellen Rogers Bassett
 Susan Blaney Bates
 Mary Leila Beasley
 Barbara Ann Beebe
 Roberta Frances Belding (Heston)
 Susan Helen Benson
 Roslynn Ann Bergschneider
 Susan Bernat
 Marjorie Elinor Berson
 Lynn Scott Bickley
 Jane Benham Bishop
 Sherrill Lee Blalock
 Diane Cecile Bloomquist
 Lucy Alexandria Bly
 †Anne Boersma
 Joan Page Bohaker
 Josephine Ann Boise
 Diane Huntington Bone
 Ellen Milton Boone
 †Eileen Susan Boris
 Carolyn Sue Born
 Bonnie Ryon Bottenus
 Bonnie Jeanne Bottomley
 Nell Crandell Bowen
 Elizabeth Pringle Bowman
 Hylton Gray Bravo
 Jane Henderson Brawley
 Elizabeth TenBroeck Breslin
 Katherine Anne Brodie
 Victoria Lynn Brooks
 Carol Sue Brown
 Judith Lynne Brown (Kleinman)
 Nancy Margaret Brown
 Dorothy Elaine Buchanan
 Leslee Kathryn Buhler
 Reisa Ann Bunick
 Mary Elizabeth Buol
 Laura Laing Burbank
 Barbara Rose Burke
 Pamela Ann Burkholder
 Frances Marie Burns
 Lynn Paxton Burrough
 Beverly Joyce Burroughs
 Ruth Anne Burt
 Augusta Somervell Burwell
 Beverly Burwell
 Elizabeth Eaton Caney
 Gail McKinley Carrithers
 Joan Hardenbergh Carter
 Margot Sands Cates
 Patricia Ann Cauthorne (Easterly)
 Mary Frances Cave
 Carol Ann Chalmers
 Susan Lynn Chambers
 Ann Winthrop Chappell
 Carol Ann Chase (Oppenheimer)
 Nancy Harriet Chasen
 Cheryl Chalmers Clark
 Marguerite Ann Clark
 Nikia Speliakos Clark
 Kay Louise Clayton
 Diana Rose Cluxton
 Elizabeth Dante Cohen
 Helen Barbara Cohen
 Lydia Sue Cohen
 Phyllis Ellen Doris Cohen
 Roberta Hope Cohen
 Sybil Esta Cohen
 Elizabeth Esperanca Colford
 Anne Virginia Condon
 Sharon Louise Connelly
 †Ruth Lee Coombs

Karen Lanet Cooper
 Asha Coorlawala
 Mary Ann Livingston Delafield
 Cox
 Kathryn Crane
 Susan Elizabeth Cumming
 Sara Jean Curry

Karen Joy Davidson
 Mary Louise Davis
 †Nancy Lee Day
 Marian Ward Dean
 Ann Louise De Lancey
 Bettina Maria Dell'Orfano
 Carole Ann DeLorenzo
 Jane Ann Dennis
 Diane Lynn Diamond
 Brenda Page Dill
 Diane Helene Dirga
 Jacqueline Wendy Distelman
 Carolyn Graham Dripps
 Rosalyn Driscoll
 Diane Budington Dubois
 Barbara Kay Dunbar
 Claire Stewart Dyckman

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 Ann Christine Early
 Ruth Miller Eastham
 Elisabeth Devereux Elkins
 Deborah Kellogg Ellis

Jill Ellen Fallon
 Susan Conant Faxon
 Megan Glen Feather (Andruss)
 Alison Kelly Feiss (Hays)
 Barbara Fernández
 Linda May Filadoro
 Alida Livingston Fish
 Deborah Whittier Fitts

Ellen Hari Flamberg
 Nancy Flasch
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 Susan June Floberg
 Anne Maury Fontaine
 Patricia Caroline Foster
 Susan Gray Foster
 Roslyn Francus
 Elaine Gail Freedman
 Serena Griscom French
 Jane L. Friedlaender
 June Henrietta Friedman
 Sylvia Ann Fubini
 Rebecca Dick Fulweiler

Terrie Jean Gale
 Holley Galland
 Paula Warren Gardiner
 Lynn Dillon Gates
 Sharon Gates
 Dona Joy Gellerman
 Daphne De Jersey Gemmill
 Jane Ann Glier
 Mary Elizabeth Goeller
 Jane Paula Goldberg
 Nancy Deborah Goldring
 Merle Susan Goldstone
 Margaret Eileen Gonzalez
 Nancy Ellen Goodwin
 Nancy Everett Gordon
 Sarah Reed Goulard
 Mary Elizabeth Grant
 Nancy Ann Graves
 Marilyn Greene
 Nancy Andrews Greene
 *Susan Joan Greenstein
 Elisabeth Gressard (Beers)
 Martha Mary Grice
 Nancy Gilmore Grote
 Carol Ann Gundersen

1967 AWARDS

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 Kristin Hansen
 Nancy Kathryn Harpster
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 Anne-Miriam Van Derveer Hart

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 Kitty Stephen Hawks
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 Judith Margaret Hegedus
 Karen Rae Helmboldt

Nancy Lowe Henry
 Barbara Joan Herbert
 Patricia Ellen Hershey
 Susan Mann Hershey
 Jean Meredith Herzog

June Elise Hill
 Marilyn Meilan Ho
 Margaret Beardsley Hoke

Delaney Frances Hopkin
 †Marilyn Jeffreys Hopkins
 Hollister Douglas Houghton
 Helen Yuen-Hing Hui
 Susan Madeleine Hyman

Roberta Hawkins Isakson

Sarah Margaret James
 Ellen Deborah Jaslow
 Linda Ann Johnson
 Gwendolyn Jones
 Susan Elizabeth Jones
 Susan Ray Jones
 Ingveldur Sigmundsdottir Jonsson
 Gail Ellen Jowitt

Ann Frances Kaplan
 Margaret Leith Keeney
 Virginia Kelber

Blaid Thérèse Keller
 Juliet Fellows Kellogg
 Carolyn Ann Killea
 Elmira Lee Kimball (Byron)
 Ellen Sue Kipnis

Edith Goodrich Kirk
 *Nancy Fega Kirschenbaum
 Nancy Dennery Kittay

Amy Eileen Klein
 Judith Ellis Knight
 Patricia Whitney Knight

†Julia Simmons Knipp
 Susan Ballenger Knox
 Phyllis Susan Koffman
 Mary Susan Kohlbacher
 Mary Katherine Krause

Sandra Eve Landau
 Elizabeth Ann Lassell
 Linda Rae Laughlin
 Laura Ellen Lee

Lynda Marian Lees
 Charlotte Leighton
 Zoe Leptourgos

Toni Gordon Lesse
 Elizabeth Ann Lester
 Nancy Jo Levine

Judith Anne Lewis
 Kathleen Margaret Light
 Marjorie Augusta Lincoln
 Sally Sumner Linvill

Laurie Jean Lipton (Tobin)
 Georgia Potter Lochridge
 Marilyn Long

Ann Sewall Longfellow
 Donna Rita Lopatin
 Susanne Whidden Lowrie
 Alison Lyon

Kathryn Annen McArthur

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 Karen Lee MacDonald
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 Kathleen McLeister
 Sidney Ann Mackenzie
 Rita Marie Macklin
 Elizabeth Ann Marchelewicz
 Patricia Lee Margraf
 Anna Elizabeth Markus
 Charnley Ann Marsden
 Elizabeth Morley Marshall
 Margot Love Marshall
 Hazel Louise Martin
 Judith Ann Meier
 Félicie Louise Meling
 Antoinette Mendlow (Kuzminski)
 Louise Lee Mettler
 Beverly Jae Michajluk
 Robin Barkedew Millan
 Edith Marion Miller
 Mary Elizabeth Miller
 Mary Webster Minich
 Sue Ann Minter
 Susan Niki Mitchell
 Katharine Mochon
 Susan Ida Moldow
 Phyllis Ann Montgomery
 Julia Leader Moore
 Joan Morgenthau
 Helen Dana Morrison
 Susan Gray Mundt
 Susan Wright Munro
 Carolyn Anna Murck
 Linda Ann Murphy

*Amy Louise Namowitz
 Meryl Helene Nathan
 Justine Mitchell Neff

Suzanne Chambliss Neil
 Nancy Elizabeth Neilson
 Virginia Marie Newcombe
 Janet Elizabeth Newman
 Philippa Nulsen (Elgin)
 Virginia Nulsen

Marguerite Elise Olson
 Margaret Ann O'Neil (Wade)
 Suzanne Irene Opton
 Margaret Owens

Elizabeth Moore Palmer
 Jerri Lyn Pantages
 Elizabeth Linda Parker
 Louisa Merrick Parker
 Mary Burrell Parker
 Pamela Jean Parker
 Edith Hollister Parsons
 Judith Carol Pelham
 Kathleen Louise Philipps
 Diane Ross Pierce
 Christie Cutting Pilcher
 Stephanie Piper
 Alison Elise Podell
 Nancy Wood Poffenberger
 Margo Ann Portnoy
 Paige Preston
 Margaret Jo Printz
 Diana Louise Pritchard
 Carol Jean Pritchett
 Margaret Claire Prouty

Linda Quan

Priscilla Rabb
 Agatha Ellen Racusin
 Amy Raesler (Hargens)
 Cynthia Hartford Ramsing
 Linda Ann Ray (Wilson)

1967 AWARDS

Sheila Ellen Remis
 Carolyn Howe Richards
 Jane Nightingale Richmond
 Barbara Ann Riemenschneider
 Constance Cordin Robinson
 Ann Goodell Robison
 *Kate Erskine Rockhill
 Eleanor Louise Rodgers
 Betsy Laurie Rohrbaugh
 Catherine Alexandria Roman
 Janet Ellen Rosen
 Roberta Beth Rosenberg
 Joan Ross
 Lynn Ross
 Virginia Savin Rouse
 Barbara Lee Rugen
 Ardis Joan Rundlett

 Ekaterini Samaltanou
 Sharon Lee Savage (Peterson)
 Anita Mitchell Schenck
 Suzanne Elizabeth Schettler
 Barbara Uttley Schilling
 Susan Mary Schofield
 Nancy Ann Schreiber
 Nancy Katherine Schuster
 Elizabeth Ritter Schwammberger
 Mary Edith Scovill
 Claire Rachel Segal
 Marion Charlotte Seltzer
 Vera Martha Semenyna
 Cheryl Ann Serlin
 Jane Ann Sforza
 Suzanne Michelle Shaw
 Lauren Blair Shumacker
 Louise Ann Siegel
 Irma Debra Simberg
 Meredith Ann Simon
 Roberta Louise Simons
 Elizabeth Wood Smith

Lynda Lorene Smith
 Margaret Davey Smith
 Sallie Hazel Walston Smith
 Suzanne Love Smith
 Alice Rebecca Snyder
 Patti Ann Sobel (Parson)
 Gail Fern Solin
 Nancy Jean Solstad
 Patricia Lynn Spears
 Sarah Francis Stanton
 May Starr
 Alexandria Lesia Stasiuk
 Alicia Kennedy Steadman
 Martha Stebbins
 Nancy Victoria Steeger
 Laura Paine Stephenson
 Martha Anne Stevens
 Harriet Potter Stewart
 Ellen Kay Stone
 Katharine Stoneback
 Martha Stoneback
 Karen Elizabeth Stoutenburg
 Janette Frear Streeter
 Mary Elizabeth Surdy
 Laura MacFarlane Swanwick
 Laurel Gillean Sweeney

 Eliza Williams Taft
 Deborah Susan Takiff
 Veronica Yi-Ting Tao
 Deborah Christine Tappan
 Juliet Sewell Taylor
 Sally Curtis Thompson
 Susan Starbuck Thornton
 Karen Ruth Tissenbaum
 Janie Kaye Tollefson
 Anastasia Toufexis
 Sallie Slawson Townsend
 Sally Ruth Tucker

Charlotte Anne Turgeon
 Judith Lynne Turnock
 Margaret Knowlton Somerset
 Twohey

Anne Lee Verville
 Adelaide Henry Villmoare
 Anita Marie Volpe

Linda Elizabeth Ward
 Martha Gordon Watson
 Edith Louise Weaber
 Eileen Joyce Weiner (Roufa)
 Laura Hartwell Wessman
 Kathryn Ellen West
 Margaret Suzanne West
 Anne Elisabeth Wheelock
 Ann Louise White
 Lucinda Edith White
 Valerie Louise Wicks

Constance Parker Wiesman
 Gail Judson Willett (Berjarano)
 Elizabeth Patterson Williams
 *Estella Catherine Williams
 Kathlyn Ann Williams
 Katheryne Janelle Wilson
 Nina Marie Wilson
 Barbara Joan Winograd
 Rebecca Ann Winship
 *Elizabeth Redford Forbes Winter
 Wendy Alden Wollensack
 Victoria Verity Woodhull
 Lyndel Ann Woodruff

Barbara Jean Yarrows
 Nancy Rockwell Young

Antonia Sylvia Zerra
 Donna Kathleen Zink

With distinction

*Rebecca Scott Babcock
 *Barbara Frances Beers
 *Beatrice Barclay Carlson
 *Margaret Louise Christ
 *Louise Broughton Clarke
 †*Eileen Susan Cohen
 *Diana Louise Eck
 *Stefany Jill Heiligman

*Deborah Louise Lisansky
 *Leslie Norton
 *Helen Barbara Pinkerton
 *Rea E Rabinowitz
 *Paula Satlow
 *Susan Elizabeth Sullivan
 *Helen Elizabeth Woodman

HONORS

Cum Laude

*Ann Shelly Barker, *English*
 Joan Ellen Bertin, *American Studies*
 Nancy Jean Cochran, *Music*
 Ellen Grace Condliffe, *History*
 Kathleen Van Varick Finn, *Sociology*
 Margaret Flanders, *English*

1967 AWARDS

- †Kathleen Ellen Gerritz, *Psychology*
Sandra Elaine Gleason, *Economics*
- *Jacqueline Hicks, *Art*
Susan Hardman Ivie, *Government*
- †Betty Jean Jones, *Biochemistry*
Barbara Ellen Kalkas, *Sociology*
Katherine Naylor Kirby, *Economics*
- *Carlyn Joan Koch, *American Studies*
- *Nicole Krein, *Sociology*
Jo Rachel Kremer, *History*
- *Jeri Lou Kroll, *English*
Brenda Lewis, *Economics*
Deborah Lipton, *Art*
Mary Elizabeth McKaughan, *English*
- *Madeleine Claudette Marie Marion, *History*
Jane Anne Missner, *English*
Mary Ann Mollek, *Government*
Gaylen Morgan, *English*
Mary Carolyn Morgan, *Government*
Sharonjean Moser, *Theatre*
Judith Anne Nowak, *History*
Elizabeth Olson, *History*
Barbara Nielson Paige, *French*
- †Mary Penelope Pate, *Biochemistry*
Judith Clare Pfau, *French*
- *Katrina Campbell Pflaumer, *English*
- *Joan Rita Piggott, *Government*
Karen Greta Rawler, *English*
Amy Rachel Richter, *Economics*
Joan Baker Roberts, *Economics*
Ann Rossi, *Economics*
Susan Kay Roth, *History*
- †Priscilla Rhoda Shaw, *Biochemistry*
Dinitia Ellen Rose Smith, *English*
Merril Stevenson, *History*
Virginia Scott Taylor, *Economics*
- *Jill Aileen Tuchman, *Economics*
Toby Rena Weisblatt, *American Studies*
Gayle Pendleton White, *Government*

Magna cum laude

- †Susan Gabrielle Earle, *Chemistry*
 †*Cherie Lyn Fisk, *Biochemistry*
 *Marion Roberts Foote, *Economics*
 †*Valerie Griffith, *Physics*
 †*Irene Carol Hait, *Mathematics*
 *Melpomeni Melina Hamada, *Government*
 Mary VanLeer Hancort (Behnke), *English*
 *Judith Ann Hermanson, *English*
 *Kathleen Landis Holverson, *Philosophy*
 †Barbara Knapp Kinder, *Biochemistry*
 Nia Lane, *American Studies*
 Linda Rae Leonard (Fowler), *Government*
 †*Barbara Janet Maly, *Mathematics*
 *Susan Jean Napier, *Religion*
 Susan Antoinette Nash, *English*
 †Mary Ellen Phelan, *Chemistry*
 Ann Frances Putallaz, *Economics*
 Nancy Richmond Rodgers, *English*
 †*Laurie Jane Rosenthal, *Zoology*
 Roberta Susan Rumble, *English*
 †*Marjorie Claire Schmidt, *Mathematics*
 †Diana Frances Seacord, *Botany*
 †Joan Agnes Selverstone (Valentine), *Chemistry*
 †*Enid Keil Sichel, *Physics*
 *Kathryn Thérèse Simpson, *Government*
 †*Elaine Marie Sussman, *Mathematics*
 Margaret Von Blon, *Philosophy*
 *Martha Wagner, *Government*
 *Justina Winston, *Classics*
 *Paula Wolff, *Government*

Summa cum laude

- †*Gale Susan Cooper, *Zoology*
 †*Jane Ellen Cope, *Mathematics*
 †*Joan Prince Hutchinson, *Mathematics*
 †*Victoria Ena Leitner, *Biochemistry*

1967 AWARDS

DIPLOMA IN AMERICAN STUDIES

Tetsuko Abe, B.A., Kyushu University, Japan, 1965.
Emily Chang, B.A., National Taiwan University, 1965.
Heidi Hasters
Geneviève Poulat, Licence, University of Lyon, France, 1966.
Elisabeth Sieniawska, M.A., Warsaw University, 1966.

M.S. IN PHY. ED

Martha Ann Artus, B.S., Boston University, 1960.
Barbara Roberta Bongard, B.S., Skidmore College, 1958.
Virginia Agnes Cranston, B.S. in Ed., State University of New York at Brockport, 1962.
Patricia Davis, B.S., Mary Hardin-Baylor College, 1964.
Margot Ellen Hurst, A.B., Colorado State College, 1963.
Geraldine Mund, B.A., Brandeis University, 1965.
Judy Ann Sheya, B.S., University of Utah, 1962.
Doris Kimball Viguers, B.A., Carleton College, 1965.

M.E.D.

Mary Katherine Buckley, B.A., University of Toronto, 1956; B.Ed., University of Toronto, 1961.
T. E. David Carmichael, B.S., Memorial University of Newfoundland, 1959; Diploma in Ed., Memorial University of Newfoundland, 1960.
Frances Jane Feild, B.A., University of Colorado, 1966.
Margaret Maves Hansell, B.A., Earlham College, 1966.
Pamela Hardy, B.A., Ohio Wesleyan University, 1966.
Gail Elizabeth Hartong, B.A., Monmouth College, 1966.
Susan Jane Higgins, A.B., Smith College, 1966.
Louiva Dae Hurt, B.S., University of Minnesota, 1964.
Ada Nancy King, B.S. in Ed., Eastern Mennonite College, 1958.
Kay Powell Klement, B.A., Adrian College, 1965.
Georgianna Joyce Kowrdovich, B.S., University of Bridgeport, 1965.
Mary Susan Lester, A.B., College of the Holy Names, California, 1962.
Margaret Ann McNab, B.A., MacMurray College, 1966.
Valerie Dee Pearlman, B.S., Syracuse University, 1965.
Mary Louise Preble, A.B., University of New Hampshire, 1966.
Bobbie Jean Price, B.A. in Ed., Southern University, 1954.

Luzviminda S. Roxas, B.S.E., National Teachers College, Philippines, 1955; E.T.C., National Teachers College, Philippines, 1962.
 Virginia Louise Seaman, B.S., State University College at Oswego, 1966.
 Betty-Lea Spitzer, B.S. in Ed., State College at Framingham, 1966.
 Marilyn Kay Stone, B.S., Western Michigan University, 1963.
 Patricia Ann Thompson, B.A., University of Puget Sound, 1965.
 Arthurlene Gartrell Towner, B.A., San Francisco State College, 1964.
 Judith Ann Wolff, A.B., Transylvania College, 1966.

Ed. M.

Barbara Lou Carroll, B.A., State University College at Oswego, 1965.
 Carol Sue Jean Ching, B.A., San Francisco State College, 1966.
 Doris French Dorsch, B.S. in Ed., Westfield Teachers College, 1956.
 Janet McLellan Exter, A.B., Smith College, 1966.
 Jane Benedict Jackson, A.B., Brown University, 1966.
 Nelson R. Ohmart, A.B., Harvard College, 1950.
 Freda Kay Thompson, B.A., Bennett College, 1966.

M.A.T.

Mary Emma Adams, B.A., Bennett College, 1965. Music.
 Mary Patricia Doyle, B.A., University of Massachusetts, 1964. History.
 Lucia Anne Dunn, A.B., College of New Rochelle, 1965. Chemistry.
 Cynthia Jane English, A.B., Smith College, 1964. Music.
 Marianne Lucille Felardo, B.A., Russell Sage College, 1966. Hispanic Studies.
 Carolyn Ruth Fish, A.B., Wheaton College, 1965. French.
 Mona Claire Frishman, B.A., Swarthmore College, 1965. English.
 Mary Harper Hutchins, A.B., Mount Holyoke College, 1954. Mathematics.
 Theresa O. Kalter, A.B., Hunter College, 1939. English.
 Cheryl Ann Lau, B.M.E., Indiana University, 1966. Music.
 Mary Thomas Mendenhall, A.B., Vassar College, 1965. History.
 Viola Ruth Owens, B.A., Bennett College, 1966. English.
 Judith Clark Shea, B.A., University of Massachusetts, 1964. English.
 Clarice Landis Smith, A.B., Smith College, 1944. English.
 Portia Williams Weiskel, A.B., Radcliffe College, 1965. English.

A.M.

Patricia Mary Barron, A.B., Hunter College, 1964. History.
 Raymond Joseph Bernier, B.S., Bradford Durfee College of Technology, 1958; M.Ed., Bridgewater State Teachers College, 1960. Theatre.

1967 AWARDS

- Regina K. Bett, A.B., Boston University, 1951. Art.
Elisabeth M. Brayne, B.A., (Honors) Queen Mary College, London, 1965. History.
Ruth Elizabeth Eller, A.B., Vassar College, 1965. Theatre.
Susan H. Forscher, A.B., Goucher College, 1965. Music.
Phyllis Leon Green, A.B., Catholic University of America, 1947. Theatre.
Nelson Charles Greenough, B.S., University of Massachusetts, 1961. Biological Sciences (Zoology).
Richard Y. Hardie, B.A., Brooklyn College, 1957. Theatre.
Raymond Francis Howard, B.A., Niagara University, 1956. Theatre.
Hshiu Mei Hsu, B.S., Kaohsiung Medical College, Taiwan, 1964. Biological Sciences (Microbiology).
Wanda Fortunée Meriems Johnson, B.Ed., Keene Teachers College, 1964. French.
Dolly King, B.S., Chung-Yuan Christian College of Science and Engineering, 1965. Chemistry.
Joseph A. Krausman, B.A., Brooklyn College, 1959. Theatre.
Gayle Lorraine Macklem, B.A., University of Massachusetts, 1963. Psychology.
Sylvia B. Mann, B.S., New Jersey State College, Paterson, 1942. Education.
Katherine Harper Mead, B.A., Bryn Mawr College, 1950. Art.
Kathleen Jane Mills, B.M., Cornell College, 1966. Music.
Elizabeth Berry Mongrolle, A.B., Smith College, 1959; M.A.T., Smith College, 1963. French.
Rosalyn Landon Oakes, A.B., Radcliffe College, 1946; Ed.M., Smith College, 1957. Psychology.
Sue Carol Punjack, B.A., Saint Francis College, Pennsylvania, 1963. Hispanic Studies.
Stella T. L. Tai, B.S., Chung-Yuan Christian College of Science and Engineering, 1964. Physics.
Kathleen Theresa Tinsley, B.S., Loyola University, Louisiana, 1965. Chemistry.
Niyati Bhasker Yodh, B.S., University of Bombay, 1964. Biological Sciences (Microbiology).
Euy Kyung Yu, B.S., Yonsei University, Korea, 1964. Chemistry.
Saul Zachary, B.A., Brooklyn College, 1957. Theatre.

Ph. D.*

- Mary Rose Castelli, B.A., Marshall University, 1962; A.M., Smith College, 1964. Biological Sciences (Botany).

*The degree is awarded by the University of Massachusetts in cooperation with Amherst College, Mount Holyoke College, and Smith College.

HONORARY DEGREES

Elizabeth Caroline Crosby	Doctor of Science
<i>Explorer of the Anatomy of the Nervous System</i>	
Florence Hollis	Doctor of Humane Letters
<i>Leader in the Education of Social' Workers</i>	
Ana Maria Barrenechea	Doctor of Letters
<i>Scholar of the Spanish Language and Literature</i>	
Soia Mentschikoff	Doctor of Laws
<i>Philosopher, Teacher, and Practioner of the Law</i>	
Eleanor Mary Humphreys, '17	Doctor of Science
<i>Pathologist and Teacher of Doctors</i>	
Edith Porada	Doctor of Letters
<i>Student of the Art and Culture of the Near East</i>	
Mary Elizabeth Switzer	Doctor of Laws
<i>Civil Servant in Public Health and Rehabilitation</i>	

1967 AWARDS

SCHOOL FOR SOCIAL WORK DEGREES

August, 1967

D.S.W.

- Donald Ray Bardill, B.A., M.S.S.W., University of Tennessee, 1956, 1958.
Maureen Claire Didier, A.B., College of New Rochelle, 1943; M.S.W., University of Connecticut, 1959.
Edward Patrick Eismann, A.B., Stonehill College, 1957; M.S.W., Catholic University of America, 1960.
Herbert Michael Rosenfeld, A.B., University of Miami, 1954; M.S.W., University of Southern California, 1956.
Walter Silas Smitson, A.B., University of Kentucky, 1956; M.S.W., Tulane University, 1958.
Michael Anthony Solomon, A.B., University of Louisville, 1958; M.S.W., Tulane University, 1960.

M.S.W.

- Lawrence Ernest Agle, B.S. IN ED., Shippensburg State College, 1959; B.D., Princeton Theological Seminary, 1962.
Sara Eugenia Argüello Pitt, ASISTENTE SOCIAL, Catholic University of Córdoba, 1963.
Alice Barney Aronow, B.A., Wellesley College, 1963.
Betty Louise Binder, A.B., Sarah Lawrence College, 1965.
Lynn Susan Carp, S.B., Simmons College, 1965.
Arlene Anne Cleary Christian, A.B., Rosemont College, 1963.
Sandra Ann Coffee, A.B., University of Georgia, 1965.
Muriel Joan Court, TESTAMUR IN SOCIAL STUDIES, University of Bristol, 1957; CERTIFICATE IN MENTAL HEALTH, London School of Economics and Political Science, 1958.
Barbara Eliza Damato, B.A., Albertus Magnus College, 1961.
Joan Louise Dana, B.A., University of Buffalo, 1963.
Miriam Chisholm Davis, A.B., Mount Holyoke College, 1965.
Maria Dimopoulou, B.A., Pierce College, 1965.
Ellen Jessie Gird, A.B., West Virginia Wesleyan College, 1961.
Leah Estell Gowen, A.B., University of Vermont, 1933.
Eda Fernella Harris, A.B., Queens College, 1963.
Susan Elizabeth Hommel, A.B., Miami University, 1964.
Sandra Lois Hurwich, A.B., University of Michigan, 1965.
Jean Katherine Ikenberry, A.B., Duke University, 1960.
Frances Swinton Jamison, B.S., Cornell University, 1948.
Mary-Margaret Jones, A.B. IN PSYCHOLOGY, Gonzaga University, 1963.

1967 AWARDS

- Francia Kalb, B.A., University of Toronto, 1962.
 Doris McAllister Kamp, A.B., Grinnell College, 1964.
 Rayna Harriet Knobler, B.S., Columbia University, 1965.
 Martin Kossover, B.S. IN PHARMACY, Long Island University, 1954.
 Ronald Joseph Lechnyr, B.A., Wartburg College, 1964.
 Marjorie Limber Lederer, A.B., Swarthmore College, 1965.
 Mary Ella Lee, B.S., Tuskegee Institute, 1965.
 Joe Philip Lemon, CERTIFICATE IN SOCIAL STUDIES, University of Nottingham, 1952; CERTIFICATE IN PSYCHIATRIC SOCIAL WORK, Victoria University of Manchester, 1954.
 Esther Cutler Levin, B.S. IN J., Boston University, 1942.
 Elizabeth Carol Lochte, B.S. IN S.S., Loyola College, 1964.
 Richard Donald McLaren, B.A., Ricker College, 1964.
 Gaetana Michela Manuele, B.A., College of Saint Rose, 1965.
 Harriet Wilson Meek, B.S. IN ED., North Texas State University, 1964.
 Judith Elaine Meredith, B.S., Iowa State University, 1964.
 Olive Marjory Miles, B.A., University of Melbourne, 1957.
 Sandra Lynn Miller, A.B., Allegheny College, 1965.
 Gail Rockwell Minton, A.B., Bennington College, 1964.
 David Alvin Rave, A.B., Grinnell College, 1959.
 Rebecca Marie Rietz, A.B., Grinnell College, 1965.
 Henry Thuku Rimi, A.B., Queens College, 1965.
 Sherry Ann Robb, A.B., Whittier College, 1965.
 Alice Jane Schwartz, A.B., University of California, 1964.
 Mary Lou Segal, A.B., University of Miami, 1965.
 Barbara Lee Senzel, A.B., New York University, 1950.
 Phebe Burwell Sessions, A.B., Smith College, 1965.
 John Ignatius Smith, CERTIFICATE IN SOCIAL STUDY, University of Glasgow, 1960; CERTIFICATE IN APPLIED SOCIAL STUDIES, University of Durham, 1963.
 Nancy Jones Sweet, A.B., Mount Holyoke College, 1965.
 Carol Rita Swenson, A.B., Mount Holyoke College, 1965.
 Joan Marcia Taksa, A.B., Sarah Lawrence College, 1965.
 Carla Ann Thomas, B.S., M.A., Sam Houston State Teachers College, 1961, 1962.
 Mary Dorsey Tobin, A.B., Goucher College, 1964.
 Jane Pink Tolbert, B.A., University of Texas, 1941.
 Karen Pfeiffer Wiley, B.A., Wellesley College, 1965.
 Rosetta Selena Wilmore, B.A., Trenton State College, 1963.
 Marlene Wolff, A.B., Hunter College, 1965.
 Frank Rathbun Wright, A.B., Columbia University, 1952.

Smith College School for Social Work

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*Dean and Professor of Social Work
Director of Research, Professor of Social
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Studies in Social Work*

HELEN PINKUS, M.S.S.

*Director of Field Work and
Associate Professor of Social Work*

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GRACE GANTER, D.S.W.

Associate Professor of Social Work

SOPHIE GLEBOW, D.S.W.

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Assistant Professor of Social Work

CAROLYN B. THOMAS, D.S.W.

Assistant Professor of Social Work

ELIZABETH C. JOHNSON, B.S.

Executive Secretary and Registrar

NORMA J. PICKLE, M.S.W.

*Assistant Registrar and Assistant
to the Dean*

DOROTHY A. NAGLE

Administrative Assistant

ORGANIZATION OF THE SCHOOL

The Smith College School for Social Work was organized in 1918 as a graduate school in which to prepare psychiatric social workers for the war emergency. During 1918 and 1919 an intensive course of theory and a period of supervised practice were given to those who were graduated. They at once found their places in hospitals and social agencies. It was soon recognized that an approach to problems of social maladjustment through an understanding of the personalities involved was valid for every form of social casework. The Smith School therefore continued after the war emergency as a graduate professional school of social work and became a charter member of the Council on Social Work Education.

The first decade of the growth of the School corresponded to the period when the mental hygiene movement was enlarging its scope to include greater focus on mental illness and mental defect, prevention of delinquency, and the development of child guidance clinics. Psychiatric social workers were then eagerly sought for hospitals, community clinics, and for preventive mental hygiene work in courts, schools, and the public services. There is an even greater demand for today's graduates, who have a rich range of professional opportunities, under both governmental

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

and voluntary auspices, in many fields of practice, including child guidance clinics and child welfare services, delinquency and correctional programs, family counseling services, hospital and rehabilitation centers, psychiatric clinics, public assistance programs, and school social work departments.

MASTER OF SOCIAL WORK

Educational Plan

The educational plan of the Smith College School for Social Work is based on the premise that there is a basic core of knowledge and skill in social work which transcends the specializations. The educational program is so planned as to offer sound orientation in the broad aspects of social work and the development of professional competence in the practice of social casework. Graduates are prepared to hold casework positions in a wide variety of private and public agencies and to advance to supervisory and administrative responsibilities.

Classroom Instruction

Academic study is designed to provide such knowledge from the disciplines of medicine, psychiatry, psychology, law, and the social sciences as is required for the practice of social work. The courses in the methods of social casework integrate this factual knowledge and develop the principles and skills inherent in practice. Other courses in the broad field of social work cover theory and method in such areas as public welfare, child welfare, group work, administration, and community organization. Basic considerations in carrying on research in social casework are reviewed in a course that serves as an introduction for individual work on a thesis.

In order to carry out this educational policy the curriculum consists of a relatively few units of instruction covering basic areas rather than being broken up into many elective courses. For example, the basic course in public welfare aims to develop a sound comprehension of the scope and objectives of the field and to give a working knowledge of the varied individual programs on the federal, state, and local levels as they operate to meet the total needs of individuals. In the same way, the casework courses demonstrate the application of casework principles in family casework, child welfare, psychiatric social work, medical social work, and school social work.

Integration of the total curriculum is achieved by arranging a sequence of courses through the academic sessions. Emphasis is placed on the discussion rather than the lecture method of teaching in the endeavor to train for independent and resourceful thinking. The educational process is strengthened by the fact that all the students live together on the campus of Smith College during the summer session and thereby are encouraged in continuous group thinking, mutual criticism, and discussion of the problems in the field of social work.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Field Instruction

Field work is an integral part of the curriculum, and academic credit is given for it. Students are assigned to agencies in small groups for a long and continuous practice period. This enables the student to become a participating member of the agency and community, and furthers the development of a professional attitude and point of view. Responsible participation under guidance during the field work gives opportunity to develop competence and self-reliance in casework practice.

Fifty-four agencies in twenty-two cities are affiliated with the School. These are located in large urban centers such as Community Service Society in New York, Judge Baker Guidance Center in Boston, and in smaller communities, thereby providing contrasting experience in the two winter field placements. Students are placed under a supervisor who is highly qualified as practitioner and teacher. Members of the staff, administrators, consulting psychiatrists, and research specialists participate in the educational program. These factors assure good theoretical teaching as well as the acquisition of sound and skillful methodology.

Carefully selected and supervised reading is assigned to supplement and enrich the practice period in the field. In addition to individual instruction each agency is asked to offer a seminar throughout the winter.

During the field work period, thesis subjects are selected and developed under the guidance of members of the School faculty. The preparation of a thesis is regarded as part of a student's training for a profession that looks to research for advancement of its theory and practice.

Continuous supervision from the School is maintained throughout the field work period by regular visits of faculty.

Curriculum

Plan A covers three summer sessions in academic study on the Smith campus and two winter field work sessions in agencies selected by and responsible to the School for the provision of a sound educational experience.

Plan B covers two summer sessions of academic study at the School and an intervening winter session in field work. It is designed for students who have had adequate graduate preparation or satisfactory supervised employment in an approved casework agency.

The School *Bulletin* giving full details for the coming year will be sent upon request.

Degrees

The Trustees of Smith College, on the recommendation of the faculty, grant the degree of Master of Social Work (M.S.W.) on the following conditions: (a) completion of the residence period, namely, five sessions of full-time study for Plan A

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

students, and three sessions for Plan B students; (b) satisfactory completion of the courses required, unless exempted by examination, when advanced work may be substituted; (c) satisfactory completion of a thesis. Information concerning the Doctor of Social Work (D.S.W.) is given on page 240.

Admission

The Smith College School for Social Work is open to men and women graduates of approved colleges who have completed at least twenty semester hours in the social and biological sciences. Inquiries and requests for applications for admission should be addressed to the Committee on Admission, Smith College School for Social Work, Northampton.

Expenses

The fee for each summer session is \$500 which covers tuition, room, and board. For each winter session the fee is \$300.

During the periods of field work the students are personally responsible for their own maintenance and may not accept salaried positions.

Scholarships

A number of special stipends and scholarships are available for students accepted by the School. Certain hospitals offer internships which cover all living expenses of students; field work agencies grant several scholarships to apply toward maintenance. Several stipends of \$1,800 to \$3,165 (plus tuition) are granted, upon recommendation of the School, by the United States Department of Health, Education, and Welfare and other governmental agencies. No qualified candidate should be discouraged from making application because of financial limitations.

Calendar 1968-1970

First Session	June to September 1968
Second Session	September 1968 to June 1969
Third Session	June to September 1969
Fourth Session	September 1969 to June 1970
Fifth Session	June to September 1970

Seminars

The School offers a series of two-week seminars in July open to experienced social workers and limited to twenty-five members. The seminars are conducted on the discussion method under the leadership of outstanding practitioners.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

PROGRAM OF ADVANCED STUDY

The Program of Advanced Study is open to graduates of approved schools of social work who have completed a minimum of three years of practice in a qualified case-work agency and who demonstrate capacity for increased responsibility and leadership. The Program consists of a third postgraduate year of clinical study and practice leading to a certificate, and a clinical doctorate leading to the degree of Doctor of Social Work (D.S.W.). Scholarship aid is available for qualified students.

Third-Year Certificate

This sequence offers formal course instruction, supervised clinical experience, and independent study. Seminars in casework and psychiatry are designed to improve the student's mastery of casework principles through a deepened understanding of the dynamics of personality and social environment and methods of treatment. Seminars in teaching method and administrative process examine the educational and psychological principles involved. Agencies, clinics, and hospitals that are outstanding as teaching centers are used for field work.

Doctor of Social Work

The doctoral sequence, which includes three summers and two winters, is oriented to the advanced preparation of casework practitioner-investigators. The program of study offers formal course instruction, supervised clinical practice, clinical research training, and opportunity to pursue a formal independent investigation. Designed to enhance career efforts to discover and articulate knowledge about practice theory and methods, this sequence includes additional special seminars in social science and research.

Alumnae Association

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Vice-President, MRS ROBBINS MILBANK, School House Farm, Nelson P.O.

Marlboro, N.H. 03455

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Treasurer, MRS MARTIN B. O'CONNOR, 1 DeWitt Road, Elizabeth, N.J. 07208

Directors:

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MRS GEORGE W. FISK, 86 Linden Avenue, Buffalo, N. Y. 14214

MRS SHERIDAN P. HARRIS, 174 Willow Lane, Chagrin Falls, Ohio 44022

MRS HADLAI A. HULL, 503 Harrington Road, Wayzata, Minnesota 55391

(Fund Chairman)

MRS MONROE LEIGH, 5205 Westwood Drive, Washington, D.C. 20016

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MRS MICHAEL PENNINGTON, 483 Edgewood Drive, St. Louis, Mo. 63105

MISS ELIZABETH ROBINTON, 96 State Street, Northampton, Mass. 01060

(Education Chairman)

MRS JOHN B. STEVENS, 20 Strawberry Hill, Wallingford, Conn. 06492

(Chairman of Classes)

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Honorary Editor Alumnae Quarterly, MISS EDITH N. HILL, 36 Bedford Terrace, Northampton, Mass. 01060

THE ALUMNAE OFFICE

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FRANCES ALDEN COPELAND, A.B.

JANET EDNA DOBBS

ESTHER PROFFITT FARRELL

Assistant

Associate Secretary

Director of Alumnae House

Assistant

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BEATRICE CORNELL GUTFINSKI	<i>Assistant</i>
ELEANOR HOWARD	<i>Assistant</i>
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LAVERNE SEEWALD O'CONNOR	<i>Assistant</i>
HELEN HOWES WELLS	<i>Assistant</i>
LOUISE COONEY WHITTIER, A.B.	<i>Assistant</i>
GLADYS RATTELL WOLOSS	<i>Assistant</i>

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Birmingham, Mrs Clifford Lamar, 3136 Pine Ridge Road 35213

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California

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Santa Barbara, Mrs Franklin T. Bigelow, Spindrift Lane, Carpinteria 93013

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Montreal 16

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New Canaan 06840

Eastern, Mrs Frank D. Browning, Jr., Masons Island, Mystic 06355

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New Haven, Mrs Frank Kenna Jr., Perkins Road, Woodbridge 06525
Western, Kathleen J. Dolan, Newtown 06470

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St. Petersburg 33704
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West Suburban, Mrs DeWitt Stillman, 117 S. Park Avenue, Hinsdale 60521

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Mrs Howard H. Dana, 122 Nayatt Road, Barrington 02890

Tennessee

Chattanooga, Mrs William L. Gray, Lulu Lake Road, Lookout Mountain 37350

Memphis, Mrs T. N. Stern, 346 Waring Road 38116

Nashville, Mrs. Eric M. Chazen, 156 Carnavon Parkway 37205

Texas

Dallas, Mrs Heinz H. Molsen, Jr., 4226 McFarlin Boulevard 75205

Fort Worth, Mrs John M. Stevenson, 1207 Hillcrest 76107

Houston, Mrs Howard M. De Laittre, 702 Country Lane 77024

San Antonio, Mrs Joseph M. Dawson, Jr., 788 Terrell Road 78209

Vermont

Mrs Carroll Rikert, Jr., 7 Green Mountain Place, Middlebury 05753

Virginia

James River, Mrs. Paul D. Camp III, 5400 Ditchley Road, Richmond 23226

Washington

Seattle, Mrs. Robert W. Cram, Jr., 9005 42nd St. N.E., 98105

Wisconsin

Madison, Mrs Gordon B. Baldwin, 4233 Manitou Way 53711

Milwaukee, Mrs Gerson C. Bernhard, 1100 E. Circle Drive 53217

Summary of Students in College

1967-1968

FRESHMAN CLASS (1971)	615
SOPHOMORE CLASS (1970)	567
Geneva	1
JUNIOR CLASS (1969)	605
France	16
Guest Students	9
Geneva	23
Guest Students	15
Germany	12
Guest Students	7
Italy	2
Guest Students	5
Spain	5
Guest Students	5
England	3
India	1
University of the Philippines	2
University of Toronto	5
Rome	2
Princeton University	1
SENIOR CLASS (1968)	566
Out of residence	10
TOTAL UNDERGRADUATES	2353
GRADUATE STUDENTS	139
FIVE-COLLEGE STUDENTS	158
GRADUATE	14
UNDERGRADUATE	144
NON-MATRICULATED STUDENTS	5
<i>TOTAL</i>	2655

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1968	Class of 1969	Class of 1970	Class of 1971	Graduate Students
Alabama	0	1	1	2	0
Alaska	0	0	0	0	0
Arizona	1	0	4	1	0
Arkansas	1	2	1	0	0
California	24	17	14	24	5
Colorado	5	3	6	4	1
Connecticut	48	42	46	67	3
Delaware	2	2	1	2	1
District of Columbia	7	10	9	6	0
Florida	5	8	6	12	2
Georgia	1	3	2	7	0
Hawaii	1	2	1	0	0
Idaho	1	0	0	2	0
Illinois	22	26	19	22	3
Indiana	6	12	4	4	3
Iowa	0	3	5	4	2
Kansas	5	2	4	1	0
Kentucky	2	2	3	1	0
Louisiana	6	5	0	4	1
Maine	6	6	8	7	1
Maryland	15	11	17	12	0
Massachusetts	107	72	90	75	53
Michigan	10	7	8	7	1
Minnesota	8	8	9	15	1
Mississippi	1	0	0	0	1
Missouri	10	7	7	5	1
Montana	2	0	0	0	1
Nebraska	1	1	1	3	0
Nevada	0	0	0	1	0
New Hampshire	7	4	9	10	1
New Jersey	52	32	48	67	5
New Mexico	2	0	3	1	1
New York	89	81	105	93	9
North Carolina	2	3	6	5	1
North Dakota	0	0	0	0	0
Ohio	22	28	25	31	1
Oklahoma	4	1	2	0	0
Oregon	2	4	2	3	0

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1968	Class of 1969	Class of 1970	Class of 1971	Graduate Students
Pennsylvania	26	28	39	43	3
Rhode Island	11	2	6	9	0
South Carolina	0	2	1	2	3
South Dakota	1	0	0	0	0
Tennessee	5	7	3	2	0
Texas	5	7	5	8	3
Utah	0	0	0	1	0
Vermont	6	4	6	3	0
Virginia	12	10	16	19	1
Washington	5	0	2	5	2
West Virginia	0	1	3	1	1
Wisconsin	5	3	3	4	1
Wyoming	0	1	1	0	0
	<hr/> 553	<hr/> 470*	<hr/> 551	<hr/> 605	<hr/> 112

**Not including Junior Year Abroad*

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1968	Class of 1969	Class of 1970	Class of 1971	Graduate Students
Australia	0	0	0	0	2
Belgium	0	0	0	1	0
Brazil	0	0	1	0	0
Canada	1	6	6	1	3
Canal Zone	1	0	0	0	0
Colombia	0	1	0	0	0
Egypt	0	1	0	0	0
England	0	1	1	0	4
France	1	0	0	1	2
Greece	0	0	1	0	1
Guatemala	0	0	1	1	0
Holland	0	0	1	0	0
Hong Kong	0	2	1	1	1
India	0	1	1	1	3
Italy	1	1	0	0	0
Japan	2	0	0	0	1
Kenya	0	1	1	0	0
Korea	1	0	0	0	0
Mexico	0	0	0	0	1
Nepal	0	0	0	0	1
Pakistan	0	0	0	0	1
Panama	1	0	0	0	0
Peru	1	1	0	0	0
Philippines	0	0	0	0	2
Puerto Rico	0	1	1	2	0
South Africa	0	0	0	0	1
South Vietnam	1	1	1	0	0
Switzerland	0	0	0	1	0
Spain	0	0	0	1	0
Syria	0	1	0	0	0
Taiwan	0	0	0	0	1
Turkey	2	0	0	0	2
Venezuela	0	1	0	0	1
Virgin Islands	1	0	0	0	0
West Bengal	0	1	0	0	0
West Germany	0	1	0	0	0
	<hr/> 13	<hr/> 21	<hr/> 16	<hr/> 10	<hr/> 27

Schedule of Midyear Examinations for the Year 1967-68

This schedule should be consulted before courses are elected.

Sectioned courses in which there are *no hours of meeting in common* for all the students of the course are *listed separately*. All other courses for which scheduled hours are given in the course descriptions are included within the appropriate time blocks (see chart, p. 255).

Examinations for courses not yet scheduled will be arranged before the examination period.

	<i>Saturday, Jan. 20</i>	<i>Monday, Jan. 22</i>	<i>Tuesday, Jan. 23</i>
8:00-10:20	Courses in Block E	Courses in Block D	Courses in Block L and Music 111
10:45-1:05	English 201a Mathematics 103a Mathematics 104a Mathematics 202a Mathematics 203b	Courses in Block A	Courses in Block V and Economics 110a
2:30-4:50	Courses in Block F	French 222a French 226 French 311a	Courses in Block J and Music 221

Schedule of Midyear Examinations for the Year 1967-68

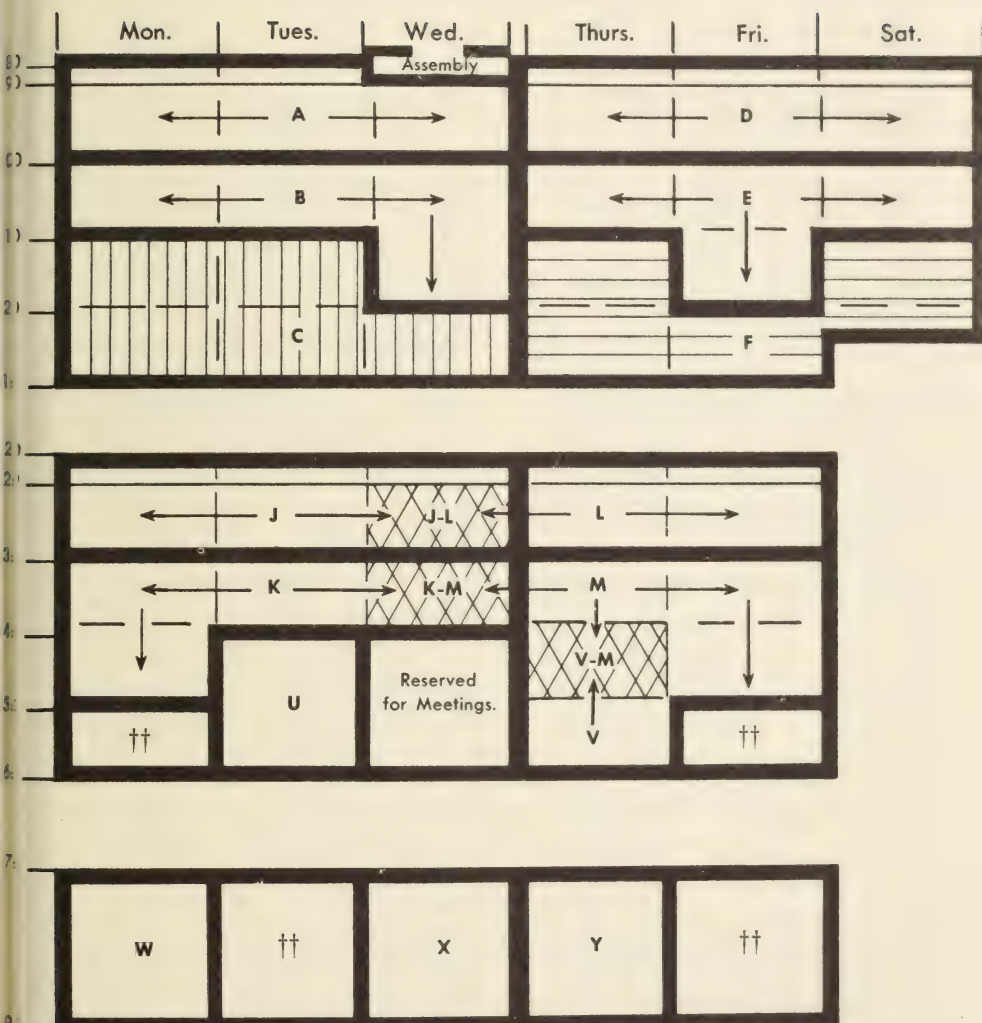
Continued

	<i>Wednesday, Jan. 24</i>	<i>Thursday, Jan. 25</i>	<i>Friday, Jan. 26</i>
8:00-10:20	Courses in Block B	Courses in Block C	Courses in Block M
10:45-1:05	German 111 Italian 111b Italian 111 Russian 101 Russian 121 Russian 231 Spanish 100b Spanish 101 Spanish 102 Spanish 103 Spanish 212	Courses in Block Y and Philosophy 111a Philosophy 121a Philosophy 124a	Courses in Block X and Psychology 101a Psychology 102a
2:30-4:50	Courses in Block W and English 214a Religion 210a	Courses in Block U and English 114a English 115a English 116a English 218a	Courses in Block K

NOTICE

The scheduled hours of classes and hours to be used at the option of the instructor are indicated following the descriptions of courses. Students may not elect more than one course in the time blocks outlined in the accompanying chart, except in rare cases which involve no conflict. Assignments to sections and laboratory periods are made by the Registrar. Where scheduled hours are not indicated, the times of meeting are arranged by the instructor.

CLASS SCHEDULE



†† Reserved for College lectures, concerts, and other events.

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FORMS OF BEQUESTS

The particular form of a bequest clause will be determined by the type of bequest (specific, residual, contingent, etc.) and its purpose (endowment, restricted, unrestricted, etc.). Although it is possible to designate a specific purpose for a bequest, the functions and needs of the College do change in time. It is recommended, therefore, that a specific purpose be stated as a preference with the final determination to be left to the discretion of the Trustees of the College. The following forms may be adapted for most bequests; special conditions should be discussed with your attorney and the Treasurer of the College.

UNRESTRICTED BEQUEST

I give, devise, and bequeath to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts, the sum ofdollars, to be applied to the general uses and purposes of the said institution.

ENDOWMENT GIFT, INCOME RESTRICTED

I give and bequeath to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts, the sum ofdollars, (to be known as the Fund); the principal to be added to the endowment funds of the College and the income to be used for (for example, scholarship aid; faculty salaries; or instruction in a specified field.)

RESIDUARY CLAUSE

I give and bequeath and devise to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts, all the rest, residue and remainder of my estate whether real, personal or mixed wherever situate and to which I may be legally or equitably entitled at my decease, or over which I have any power of disposition; (to be known as the Fund; to be used for).

CONTINGENCY CLAUSE

In case of the failure or lapse of any legacy or devise herein such that the property so bequeathed or devised would pass by intestacy, I direct that in lieu thereof such property shall pass to The Trustees of the Smith College, a charitable corporation established by law at Northampton in the Commonwealth of Massachusetts.

